

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:620:

```
GAATTCGGCC TTCATGGCCT AGCTGATGAT TCCAAACATT TNGTAAATTA ATTTTCTCT 60
CTTTACCTTT CAGCTTGGA GGAAGACAGA AGCCTTAACC TCCAGGGTAA CATGTTGCAA 120
TTTGTTCACT TATTAATCTA ACAAGAATGC ACTGAGGTGC TCATTAAATG TCAGACCTTG 180
TGTGAGGTG AGGAAATCCA AAAGCAAAGG AGGCATGAAC CTCCATGCCC ATTCAGAAGG 240
GCACCAGGCC TTTAAGAAG GGTGGATATG CACAATTGTA AAATAACTGA TAGTCCTGAC 300
TTATCTTGC AATTAATAAG GCAATTCAT ACACATTTA TACTCGAG 348
```

(2) INFORMATION FOR SEQ ID NO:621:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:621:

```
GAATTCGGCC TTCATGGCCT AGCAGGATGG CACCGGACCC CTGGTTCTCC ACATACGATT 60
CTACTTGTC AATTGCCCAA GAAATGCTG AGAAAATTCA ACAACGAAAT CAATATGAAC 120
GAAAAGGTGA AAAGGCACCA AAGCTTACCG TGACAATCAG AGCTTTGTTG CAGAACCTGA 180
AGGAAAAGAT CGCCCTTTG AAGGACTTAT TGCTAAGAGC TGTGTCAACA CATCAGATAA 240
CACAGCTTGA AGGGGACCGA AGACAGAACC TCTTGATGA TCTTGTAAC CGAG 294
```

(2) INFORMATION FOR SEQ ID NO:622:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:622:

```
GAATTCGGCC TTCATGGCCT AGGTCAAGGG ACAATGAAAA TGTGACCCTT ACCAACGACA 60
GAAACTCCCA GGAAGCCACA ATTAAC TCAA GACCACCAGG ATATTGGGG AAGTTTATCC 120
TTCTGGAAC CAGAATTTCT GATTTGTGGA AAATTCTATA GATATTCTCT GCCAGACTCC 180
AGCCTATTTG TGTGAGACAT CTGGGGAGGC TCCCCTTTT TTCACCATT GAGGACTGAA 240
AGTAAATTTA GCTTCCTCAG CAGAAAGAAA AGAAGCTGTT TTGGAGGTTA GGAAGAAGCT 300
CGAG 304
```

(2) INFORMATION FOR SEQ ID NO:623:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:623:

```

GAATTCGGCC NTCATGGCCN ACTCTATTGG TGCAAAGTAA GATTTCATC TGTGTTTCTAGA 60
ATCTTTGAGA TAATACCCCT TTTCTACATT TCTGCATTTT TTTTCTGTGA NCCCCACTAG 120
TATTNCNCCA TTTTNACCTT TTTTCTAAC TTATCCTCAC ATTATAAGAG ATGGATGACC 180
TATACAGACT TGGCCTTTGG GCTTTGGCTT CATTCAATAT CATCTTGGGT ACCACTGAAT 240
ACCGTTCAAT CTAGAGCTGG GTGGTAGGTT GAGATGTATA TTTCTAGCC CAGATCCCAG 300
AATCTAGAAG AAGTTAAATC TGATATGACT TTGATAAATA AGACAGTATG TTCTTCTAAC 360
CCCATCTCCC GTTCTCTGAC ACTGAACATA TATATGAAGT ATATATAACA TATACCGAGT 420
ATTTAAATTT TTAGAATAAA AATGTGCATT ACTGCACATC TTCCTGTCTT TCATTCTCTG 480
GTTGAGTTTC CCTCGAG 497

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(2) INFORMATION FOR SEQ ID NO:624:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 331 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:624:

```

GAATTCGGCC TTCATGGCCT AGAGCAAGCA GAGGTGGCCT GCGTGTGTAT GTGCTCATGT 60
GTATGTGTGC ACATGCATGT CTGTGTGTGG ATGCCCATGC GTGTAACATC TGATGTGGCA 120
CATGATACAA CATAATTTAT TTATTATAGA AACCTGCAAG TAAAGATTCA AGAGGAATCG 180
CAGATCCCAA TCAAAGTGCC AAGTGGTAGG TTACCCTGAC AGATAGTACC TCCCTTTTTT 240
ATTTTTCAAA TGCTGGCATA GTTTGTGTT CTTTACCAAC TCATTGATTT ACTGGGGACA 300
TCCTCTGTAC TTATCACAAC AGGTTCTCGA G 331

```

(2) INFORMATION FOR SEQ ID NO:625:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 334 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:625:

```

GAAGTTGCAT TACACCTTCT CTTCTGAAGT AAACACTAAA AATATCAGGT AACTTCTGCA 60
TTAAATTTTC TGCCATCTGA AGTGCTCCCA CTTACTATCT TCAGGTCTTG GCTTGACAGC 120
ATGGAAGCAA TGTGACTTGA AACAGCATGA TTTTTCAGAA CATCCTTCAG AAGTTCAGCA 180
TCCGCAAAAT AAATTATCCT AAGAATTGCT CTAAGGCACT TATGTCTGAC CGCAGGTCCT 240
GCTGAGGAAC TATACACTTC ATAAAGAACA CCAAATAATG TCTTAATAAA AGACTTAGCC 300
AGTTCGGGAT CCTCTTTCAT AAGCTGTGCT CGAG 334

```

(2) INFORMATION FOR SEQ ID NO:626:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 371 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:626:

```

GAATTCGGCC TTCATGGCCT AGTCGGATTC CCAGTGGAAC TTTAGTAGTA CTCAGATCCT      60
CCTTTGTTTG GTGCGTAGTA TATTAACAAG TAAACCTGCC TGTATGCTCA CCAGAAAGGA      120
AACAGAGCAT GTCAGTGCTT TGATCCTGAG AGCCTTTTGG CTTACAATTC CAGAAAATGC      180
TGAAGGCCAC ATCATTTTAG GAAAGAGTTT AATTGTACCT TTAAGAGGTC AAAGAGTTAT      240
AGATTCCACT GTATTACCTG GGATACTCAT TGAAATGTCA GAAGTTCAAT TAATGAGGCT      300
ATTACCTATC AAAAAATCAA CTGCCCTCAA GGTGGCACTC TTTTGTACAA CTTTATCCGG      360
AGACTCTCGA G                                     371

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(2) INFORMATION FOR SEQ ID NO:627:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 522 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:627:

```

GAATTCGCCT TCATGGCCTA GATGTTTCAA TTTCGAAGTA CTTTGAAGT TTAGTAATGT      60
CAGAGTTGAA CATTTTCTGT AGCATGACTA TCGACTTGTC TTTTCAAGGC AGCCTGCAAA      120
GCCATTGAAC AAGCAAAGAC TCAAAACATC AATAAACTGG TTCTGTATAC AGACAGTATG      180
TTTACGATAA ATGGTAAGCT TTCACATTG ATTTCTTCTG TTTTCCAGT AACTGTGAAG      240
GGAAATTGGT AGGAGGTGTT GTAACAGGGC AGGACCCAAA TGGGAACGGG GGGATGACAT      300
TGGTTTGTC GGTACCGAGC AAAGAGTGAG GATTTTGGAG TCTCCCTTCT GCTGCTCTGA      360
TGTTTCCAC ATGCTTATTT CTTTGCCAGG CACTGGAGAT GCAGTCAGAA GTGGAAGTGG      420
CTCTTACTTC TAGTCTGTGT GTGTATAAGT CACTTAAGAT GCGGTGTTGA CTGCTTCTTT      480
GGGAAATGCC CTGAATAGGA GCATGTAGGG GATGTGCTCG AG                                     522

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(2) INFORMATION FOR SEQ ID NO:628:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 212 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:628:

```

GAATTCGGCC TTCATGGCCT ACAAATATC TGTGGGAAGG TGAGCTACTT AGCATTCAAC      60
AATGCAAAGT TTCAAAGCAT TTTGCAAATT TTAAATATAC GCTATAATTC TTCTGTAATT      120
GGTGTCTTTG GTACTTTTGG GGTAAATTGG AGTTATTCCA AAATAATTAT ATTTTATAGC      180
ACTTTTGACA CCATAACACT TAGCATCTCG AG                                     212

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(2) INFORMATION FOR SEQ ID NO:629:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:629:

GAATTCGGCC TTCATGGCCT ACTCCTTCCG CGCGAGTCTC TGGAGAAGCC GCAGCGCGAG	60
TTGCCGCGCG TGCTGCCCCG GCGCGGCTTG CCTTGCGCCA TGGACTGGCA GCCAGACGAG	120
CAGGGCCTGC AGCAGGTCCT GCAGCTGCTC AAAGACTCAC AGTCGCCCCA CACAGCCACT	180
CAGCGCATCG TGCAGGATTA ACTCAAACAA CTCGAATCAGT TTCCTGACTT CAACAACAC	240
CTGATTTTCG TCCTGACCAG ACTCAAGTCA GAAGATGAGC CAACGCGCTC TCTCAGTGGC	300
CTCATCTCA AGAACAACCT GAAGGCACAC TATCAGAGCT TCCCACCCCC CGCTCGAG	358

(2) INFORMATION FOR SEQ ID NO:630:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 168 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:630:

AAGAGAACAA TAAATAGGC AGTCTCCTAC CTCTTGCTT ACTCTAATAT AAATCCATG	60
AAGATAAGTA TTGTATCCAT ACTGTTTCATG CTGCACAGCA GTTGCCCTTA TCTGCAGGGC	120
GACGCATCCC AAGACCCCCA GTGGATGCTT GAAACTGCAG AACTCGAG	168

(2) INFORMATION FOR SEQ ID NO:631:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 477 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:631:

GAATTCGGCC TTCATGGCCT ACATAACTGC ATTCTGACCT CCTTCTTGCA GTGCCAAGAG	60
AAATGATGCT GAACTAAGTG CCGGGTGTGG GGTGCTTCTC AAAATGCGGT CATTGCTACA	120
GAACTAGGCT TTTTGGTTAG TTACATNCTT TGTGGAAGGA CAGGGTGGTG GGTACAGGTC	180
CCTGAGAAGC AGACATGTGG AATTGTTTGA GACAATCCTA CTCCCTGTGG TACTCTCTCT	240
ATGTATATAT TCCAATGAAG GTAATTACCT TCATGCTTTC CTAATACAT AAATCTTTAC	300
ATTTCAAATG CCTTGTTAGA CTGTACTCAA GATTCCAGAG ACATTTTAAA ATAATTCATT	360
TTCAAATCAT AAATTGCGA AANGGGGCCC TGGGATAAGC AAGTTGACTG GGCCACTGCT	420
TATGCCATTC CCTGCACAAT TCTGGCATG GAGCAGCTCT CCCAGAGCCC ACTCGAG	477

(2) INFORMATION FOR SEQ ID NO:632:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:632:

GAATTCGGCC TTCATGGCCT ACTGCCTCCT GATGAAGTCC CTACTGTTCA CCCTTGNAGT	60
TTTTATGCTC CTGGCCCAAT TGGTCTCAGG TAATTGGTAT GTGAAAAAGT GTCTAAACGA	120
CGTTGGAATT TGCAAGAAGA AGTGCAAACC TGAAGAGATG CATACAAAGA CTACAAGAAT	180

TTCAACAGTA ACAGCAACAA CAGTCAACAA CAACTTTGAT GATGACTACT GCTTCGATGT	240
CTTCGATGGC TCCTACCCGT TTCTCCCACT GGTGGAACAT TCCCAGCCTC NGTCTCCTGC	300
TCTAGGATCC CCGACCCATT AAGACTCGAG	330

(2) INFORMATION FOR SEQ ID NO:633:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:633:

GAATTCGGCC TTCATGGCCT AGGAGAAGGC CCTGCAGGCC GCATATGGCG CCAGCGCCCC	60
CAGTGTGACC TCGGCTGCCC TCCGGTGGAT GTACCACCAC TCACAGCTGC AGGTAACCAG	120
CGACCCCTGGG TGCTCAGCTT CTTCCTTCC AGGGGGACCA GCGTCACCTT TAGGTGAAGC	180
CCAAAGCATT TGATTTCTGA ATTCTCTGA AATTTTCTT TCTTCCAATT CTCATAAGCA	240
CTCTCCCACT TGGTCTTGA TGGTATCTGA GTGGAGGCTT TGTAAGTGGG GATTTTCATT	300
ACAGGGATTT TCTTATCCT TAGGCTTTCT GAAGTATGAT TATCCCAGTG TTATTGATGA	360
GGAAACCGAG GTTCACCCAG CTATTCTCGA G	391

(2) INFORMATION FOR SEQ ID NO:634:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:634:

GAATTCGGCC TTCATGGCCT AAGTACAAAT ACCTATTATG TTGGTTGGGA ATAAGAAAGA	60
CCTGCATATG GAAAGGGTGA TCAGTTATGA AGAAGGGAAA GCTTTGGCAG AATCTTGAA	120
TGCAGCTTTT TNGGAATCTT CTGCTAAAGA AAATCAGACT GCTGTGGATG TTTTTCGAAG	180
GATAATTTTG GAGGCAGAAA AAATGGACGG GGCAGCTTCA CAAGGCAAGT CTTCATGCTC	240
GGTGATGTA TTCTGCTGCA AAGCCTGAGG ACACTGGGAA TATATTCWAC CTGAAGAAGC	300
AAACTGCCCG TTCTCCTTGA AGATAAACTA TGCTTCTTTT TTCTTCTGTT AACCTGAAAG	360
ATATCATTG GGTGAGAGCT CCCCTCCCTT CAGATTATGT TAACTCTGAG TCTGTCCAAA	420
TGAGTTCACT TCCATTTTCA AATTTTAAGC AATCATATTT TCAATTTATA TATTGTATTT	480
CTTAATATTA TGACCAAGAC TCGAG	505

(2) INFORMATION FOR SEQ ID NO:635:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:635:

GAATTCGGCC TTCATGCCTA CAAATATGTC CTCTGTCAAG ACCCCTGAAA CAGTTGTCCC	60
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CACAGCCCCT GAGCTCCAGA TTTCCACCTC CACAGACCAA CCTGTCACCC CTAAGCCCAC	120
ATCTCGGACC ACTAGGAGCA GGACAAATAT GTCCTCTGTG AAGAACCCTG AATCAACTGT	180
CCCTATAGCC CCTGAGCTCC CACCTTCCAC CTCCACAGAG CAGCCTGTCA CCCCTGAGCC	240
CACATCTCGG GCTACTAGGG GAAGAAAAAA TAGATCCTCT GGCAAGACCC CTGAAACACT	300
TGTCCCCACA GCCCCTAAGC TCGAG	325

(2) INFORMATION FOR SEQ ID NO:636:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 201 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:636:

GAATTGGCCT TCATGGCCTA GCTTCCTCTT CAAAAATGTG TCTACCTAAG ATACTATTAT	60
TTAAGCCTCT GTGTACTTTT AACCGTAGAA CTGATTTTAT AGGAAGACGA AACTTGTCGG	120
CTTTCAAGAC ATGGAGTGTG TGCCTTGTGG AGACCCTCCT CCTCCTTACG AACCGCACTC	180
TCATCCACAA AGAACCTCGA G	201

(2) INFORMATION FOR SEQ ID NO:637:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 417 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:637:

GAATTCGGCC TTCATGGCCT AGGCAAAGCC TGAAAGTCCT TGGACTTCTC TGACCAGAAA	60
GGGAATTGTT CGAGTTGTAT TTTTCCCCTT TTTCTTCCGG TGGTGGTTAC AAGTAACATC	120
AAAGGTCATC TTTTCTGGC TTCTTGTCCT TTATCTTCTT CAAGTTGCTG CAATAGTATT	180
ATTCTGCTCC ACTTCTAGCC CACACAGCAT ACCTCTGACA GAGGTGATTG GGCCGATATG	240
GCTGATGCTG CTCCTGGGAA CTGTGCATTG CCAGATTGTT TCCACAAGAA CACCCAAACC	300
TCCTCTAAGT ACAGGGGGTA AAAGAAGAAG GAAATTAAGA AAAGCAGCCC ATTTGGAAGT	360
ACATAGGGAA GGAGATGGTT CTAGTACCAC AGATAACACA CAAGAGGAAT GCTCGAG	417

(2) INFORMATION FOR SEQ ID NO:638:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 351 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:638:

GAATTCGGCC TTCATGGCCT ACCCTCCTCC AATGAGTCCC GCCAATGCCC CAATGCCCCG	60
TGCCAGTTCG CTTTCTACGG TGGTGAGTCG GGCTACCACC GGGCCCTGCT GGGCCTGCAG	120
ATCTTCAATG CCTTCATGTT CTTCTGGTTG GCCAACTTCG TGCTGGCGCT GGGCCAGGTC	180
ACGCTGGCCG GGGCCTTTGC CTCCTACTAC TGGGCCCTGC GCAAGCCGGA CGACCTGCCG	240

GCCTTCCCGC TCTTCTCTGC CTTTGGCCGG GCGCTCAGGT ACCACACAGG CTCCCTGGCC	300
TTTGGCGCGC TCATCCTGGC CATTGTGCAG ATCATCCGTG TGATACTCGA G	351

(2) INFORMATION FOR SEQ ID NO:639:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 567 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:639:

GAATTCGGCC TTCATGGCCT AATTTTTTTG AGACAGAGTC TTACTCTGTT GCCCAGGCTG	60
GAGTGTGGTG GTGCGATCTC GGCTCACTGC AACCTCTGCC GCCTGGGTTC AAGCTATTCC	120
CTGCCTCGGC CTCCCAAAT ACTGGGATTA CAGGCGTGTG CCGCTGTGCC CAGCCGCTGT	180
CTAGTCTTTT AAAACTTGGT GTTTGAGCAT GCACATTCTC CTTCTGGAAT ACCTGATCAC	240
CCAGCACAAC TCACGTTNTC TTTCTGCTGG CTACCCCTGC CTTGCTGTGA CTGTGTCATG	300
GTTCTCAGCT AGACTCGGTG GCGTGTGTTGA TGGCCCAGGC ATCGTCTGCC CAGTGGGTGT	360
CCTGTTACCC ATGTATGACA GACTGTACCC AAGATATCAG TCTTACGAAT AAGGCCACGA	420
TGAACACTTT GAGCTTTTTC TGTATCTAGC ATATCCCCAG GGTAGATGCT CAGGCAGGAA	480
ACTGGTGGGA GATGAGGGAT ACACAGATGG CTCCCNACAG GTGCTGTGAG GTGCTCAGGA	540
GTTTATCATC ACTTAACTGA GCTCGAG	567

(2) INFORMATION FOR SEQ ID NO:640:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:640:

GAATTCGGCC TTCATGGCCT AGCTCCGCAN AGGTAGGGAG GGAAGGGCCC CTCAAATANA	60
TGGAGGGAGC AACATCCCTC CAAGGGAAAG GGCTTCCAAN ACNAAATCCT GGACAGAAGC	120
GGAGCANGGG ATGGGCCTCC TTACAGAGCA GGAGGAAGAC AGCGCTCTTC NAANANGAAA	180
GGAGAGGGGC ATCAAGGTCC CTCACAATGG TGGAGGGGGC GGGGCTTCTC ACCGAAGGCA	240
GAGGAGGGGG CCTTAACTGA GGGGCAGGGC GCCTCCCAGG GATGAAAGGA GGAGGCCTGC	300
CGCAGAGCAG GGA AAAAGTT CAGTCCTTTC CTGCATTTCT TGGCTGAAGG GGTCTTAAGA	360
TGAAGGGTTC AGTGTCCAGA AGGAAAAAAC CCTGAGATGG GCCTAGACCA ACATGAACTC	420
AGCTAGCAAG TTCATACATG ACATGGGACT GATAGACTTG TGTGGCATCT CGAG	474

(2) INFORMATION FOR SEQ ID NO:641:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:641:

GAATTCCGGCC TTCATCCTTG AGAATATCAG AATTAGAAAG CCAGGTTGTT GAAATGCATA	60
CTAGTTTGAT TTTAGAAAAA GAACNAGTAG AAATTGCAGA AAAAAATGTT TTAGAAAAAG	120
AAAAGAAGCT GCTAGAACTA CAGAAGCTAT TGGAGGGCNA TGAGAAAAAA CAGAGAGAGA	180
AAGAAAAGAA AAGAAGCCCT CAAGATGTTG AAGTTCTCNA GACAACTACT GAGCTATTTT	240
ATAGCAATGA AGAAAGTGGA TTTTAAATG AACTCGAG	278

(2) INFORMATION FOR SEQ ID NO:642:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 413 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:642:

AGGGAGAGGA GGCTGGGAAC AACGTGACCC ACTAAGGATT CTGCTCCAAG GACAGTGGGT	60
TTCCCGCTGG GCACCCACTC TTAAGTGCAG ATCGGGAGAC TAAGACAGGA ACACCCGCCG	120
TGGGCAGGCC AGGCTGGAAG GATAGAGGAC TGTGGTCGAA CCAAGAGGAG GTTCAACTGT	180
GACTTATGCC AGTGTGGTCA CGAAGGCAGA TGGGTGAAAC TGAAAAGGGG GCACCGGTTT	240
CTGGCATGGA GGCACCCAAG GTCTTAGGAG GTGGATGGAC TGTCACATGG GCAAAGAAAT	300
GTCCCAGGGC AGGACTGCAA AGGCCACAGA AGAATAATTT GGGAGAGAGA CAACCCATGA	360
GAAGTCACTC AGACCAGGGT CAGAAACAGA ACAGGAACAA CAATGGACTC GAG	413

(2) INFORMATION FOR SEQ ID NO:643:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 658 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:643:

TTTCNTCCCT TNGAATGTTT GTCCCTTTTT CCTGTTTTTT TTTGCACAA AATTNCAAGT	60
TNTACCAAGC AAACATTAAA TCCAAGTTGG AATTTTAATT AAGGAATTCG GCCTTCATGG	120
CCTACTGGTG CCTTCCCGGA AGGGCTCAGA GCGGGGCTCG GGCAAGCACT TTAACCTTTT	180
AAGCCCAACC AGATGAGTTG CTGTCAGTTT TGGAGGCCTT CAGAGCATTT CACTAGACCT	240
CTGTCTGTGT CGGTCCAATG TCTTTAGCCA AGCTTTGATT AAAGATGACT TCCTTGTTTG	300
CTCAAGAAAT TCGCCTTTCT AAAAGACATG AAGAAATAGT ATCACAAAGA TTAATGTTAC	360
TTCAACAAAT GGAGAATAAA TTGGGTGATC AACACACAGA AAAGGCATCT CAACTCCAAA	420
CTGTTGAGAC TGCTTTTAAA AGGAACCTTA GTCTTTTAAA GGATATAGAA GCAGCAGAAA	480
AGTCACTACA GACCAGGATT CACCCACTTC CACGGCCTGA GGTGGTTTCT CTTGAGACTC	540
GTTACTGGGC ATCAGTAGAA GAATATATTC CCAAATGGGA ACAGTTTCTT TTAGGAAGAG	600
CACCATATCC TTTTGCTGTT GAAAATCAAA ATGAAGCAGA AAATACCATT CCCTCGAG	658

(2) INFORMATION FOR SEQ ID NO:644:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:644:

GAATTCGGCC	TCATGGCCTA	CCAAAGAGTG	TTATACATGC	TCAGCAAACA	ATATCTACAG	60
GAACTAGCCC	TCAGGAAAGT	AAAAAAAAAA	AAAAAAAAAG	GCAGCAGAGG	GCCAGCCCAT	120
TCTTCTCATA	GCTCACTGAT	ACACTTGGTC	ACATTCTGCC	ACTACCTGCA	AGGGAGGCTG	180
CGGAAAGGTA	TCCCTACAGA	GGCAGACGTG	CCCAGCAAAA	ACTTTGGCCG	GTGGGGGGAC	240
ACTCCATGAC	AAAAAATACA	AAGGAGAGAA	TGGGAGCTCG	AG		282

(2) INFORMATION FOR SEQ ID NO:645:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:645:

GAATTCGGCC	TTCATGGCCT	ACCTTTCTCT	GACCTGTGCC	CTCGGCCTCT	TGGCCTCCAT	60
CGCCATGACC	TTTGCCACCC	AGGGCAAGGC	ACTGCTGGCT	GCCTGCACTT	TTGGGAGCTC	120
TGAACTACTG	GCCCTCGCAC	CTGACTGTCC	CTTCGACCCC	ACACCACTCG	AG	172

(2) INFORMATION FOR SEQ ID NO:646:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:646:

GAATTCGGCC	TTCATGGCCT	ACCAGAAACC	GGCCAGGCAA	GGAAAGAGGC	CGGTCACCAG	60
AAGCCAGCAG	GCGTGGGGTG	TGATACTCTC	TATAGCCACT	ACAGGGCGCG	CGCAGGTGCG	120
GGATCTCCCC	AGTTGCTAAT	CCCGGCTCTG	CCACTCAATC	CTATCCCTAG	TTCCCGAGCG	180
CGGGTCCCCC	GCCTTGCACT	CTCCAGCCGT	GCGGGGCCGG	GAGCAGGCCT	CCGGCCTCCC	240
AGACTTCTAG	AGCCCGCCGG	GCCCATCTTT	GTACTCATCC	ACCCCGGCTC	GAG	293

(2) INFORMATION FOR SEQ ID NO:647:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:647:

GAATTCGGCC	TTCANGGCCT	ACAGAAACAG	AAATGCTAAC	TGAAATGTAT	TCTTCTAACA	60
AAGCATTCTT	AACTTTCTAG	AATGATGCTT	TTCATTTTTC	TTTATCTTTT	TTTCTGCTTAT	120
TCCCAAATAT	ATACTTTGGC	CATTTAAATA	AATGGCCAAA	GAAATGGCCA	AAAAATGCTT	180
TATTTAGTTT	TTGTTTTATT	ATGAAGGATG	ATTACTCTTT	AATGCTGCTA	AATTCTTTTC	240

TAGCTCTGTA TTTCACCTCA AGAAAACTCG AG

272

(2) INFORMATION FOR SEQ ID NO:648:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:648:

```

GCGAGCTGTT GGGATTACAA AGTTGCGCGT TTCATCGGTA CAACTGGTC TTTGAACCTC   60
CTTTGTGAGA GCAATTGTAG TGTCCAAATT GTTAGGGAAA ACAAAAAAAAA AAAATCCCAA   120
GGAGGAGGGT TTTCCCCCT TCCCTGTTTG GTTTATCACA GCATTTTGCT TTTTTTTGG   180
CACAGCTTTT TACGTTCTT TCCATTGAGC CATCACAGAG CCTGTTCCGG GTGGAAACCA   240
ATCCACACGC CTCGAG                                     256

```

(2) INFORMATION FOR SEQ ID NO:649:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:649:

```

GAATTCGGCC TTCATGGCCT ACCCACCTTG GCCTCCACCA GTGCTGGGAT TCCAGGCGAG   60
AGTCCCTGCG CCCAGCCCCA CTGTCTATT CTGTTTTTG CTGCCTGTTT TTGGTGCTT   120
ATCTGCACAT GAATATTTAT AGCAGCTTTA TTCATAATTG CCAAACTTG GAAGAAACCA   180
CAATGACAAT GTCCTTCTAT AGGTACACCC ATACAATGGA ACATTCAGTG ATAAATGAG   240
CCATCAAGCC ACCCAAAGG CTCGAG                                     266

```

(2) INFORMATION FOR SEQ ID NO:650:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 490 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:650:

```

GATTCTCAG CTTTGAACA GAGTGGACTT GTCAATATCA GAGCAGAGCA CCAAAGTAA   60
GATGTCTCAC AGAGACAGTA ACCACCAGCT TCAGCTTTTG GACACTAAAT TTAAGGTAC   120
AGTTGAGGAA CTCAGTAACC AGATATTATC TGCACGGAGT TGGTTGCAAC AGGAACAAGA   180
ACGGATAGAA AAAGAGCTTT TACAGAAAAT TGATCAGCTT TCCTTGATTG TTAAGGAAAA   240
CAGTGGAGCC AGTGAAAGGG ATATGGAGAA GAAGCTCAGC CAGATGTCAG CCAGGCTTGA   300
CAAAATAGAA GAGGGTCAAA AGAAGACTTT TGATGGTCAG AGAACAAAGC AAGAAGAGGA   360
GAAGATGCAC GGGCGAATCA CCAAGCTGGA GTTACAGATG AACCAGAACA TCAAGGAAAT   420
GAAAGCAGAA GTTAATGCTG GGTTCACAGC CGTCTATGAA AGCATAGGAT CCCTCAGGCA   480
AGTTCTCGAG                                     490

```

(2) INFORMATION FOR SEQ ID NO:651:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 498 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:651:

GAGATAGAGG GGACCCTGGC TATGGACATT TTGAATTATG TCGGGAGAGC TGATGGANAA	60
AGAGGCTCCN GGAGGACTGG TTAAACTGAA GCCNGGAATG AGATGAAATG TATAAAATTC	120
TCTTGAATGA TTATGAATAT CGTCAGAAAC AAATCNTAAT GGAAAATGCA GAACTTAAGA	180
AGGTTCTTCA ACAAATGAAA AAGGAAATGA TTTNTCTTCT TTCTCCCCAA AAGAAGAAAC	240
CTCGAGAAAG AGTAGATGAT AGTACAGGAA CTGTTATTTC CGATGTTGAA GAAGATGCCN	300
GGGAACCTAAG CAGAGAGAGT ATGTGGGACC TTTCTGTGA AACTGTGAGA GAGCAGCTTA	360
CAACAGCAT CAGAAAACAG TGGAGAATTT TGAAAAGTCA TGTAAGAAAAG CTTGATAACC	420
AAGTTTCAAA GGTACACCTG GAAGGTTTTA ATGATGAAGA TGTAATCTCA CGACAAGACC	480
ATGAACAAGA AACTGAAA	498

(2) INFORMATION FOR SEQ ID NO:652:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:652:

GAATTCTTCT TTCTCTATAA ATTTGCCTAC TATTGAAGAT TCTTCAGAGG AAGAAGAATT	60
GAGAGAGGAA GAAGAATTAT TAAAGGAGCA AGAAAAGCAG AGGGAAATAG AACAGCAACA	120
AAGAAAGAGT TCTAGTAAAA AATCAAAGAA AGACAAAGAT GAACTTCGAG CTCAGAGAAG	180
AAGGGAAAGG CCAAAGACTC GAG	203

(2) INFORMATION FOR SEQ ID NO:653:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:653:

GGAAAGAAAN GGACAAACCT ATAAATTAAC TCAACCTATA TCTCCCTTGA AAATACTTTC	60
AGGCTCCACC AAAACGTAGA ACTGAAAGCA TGTATTTTGG AAGAAAGAGA TACATTTTGT	120
ATGCTTTCTT TTCCTTTTGT AGATTCCCAG TTTATTTTCT AAGACTGCAA AGATCACTTT	180
GTCACCAGCC CTGGGACCTG AGACCAAGGG GGTGTCTTGT GGGCAGTGAT GGGGNCCTCG	240
AG	242

(2) INFORMATION FOR SEQ ID NO:654:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 241 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:654:

```
GATTCGGCCT TCATGGCCTA GGGAGGAGAA GAAGGGGGAG AAATCACAAA GAGATTGGGG    60
AGGAGATGAA GTAGCAGGGC TCAGCGATTC TTTCAATTCC AGTGACACACC CAATAGTGTG    120
TTGGAAGAAT GCACACTGTT CGGGATTTGT GGGAGAATTG TCCCATGACA AAGGAGGCAG    180
GGTTATGCTT GTTATAGTCC AATAAGCCGT GCCAGTCAAA CAAGAACCCA CACTCCTCGA    240
G                                                                    241
```

(2) INFORMATION FOR SEQ ID NO:655:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 278 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:655:

```
GAATTCGCCC TTCATGGCCT AGTGGTGAGA CTGAGCAGAT TTAATTAATG TCTGTTATGT    60
TCAGGGCACA AGGGTGAGCT CTTCGAGGG GCTGATGCAC TGGGTGTGGA GCTGAGCAGA    120
GAGGCCTAAC CAGGATCAGG CAGGAGGGCA GGGATGGTGG CAGCCATAGG AGGGCAGGGT    180
AGGGTAGGGC CTCTGAGGAG GAGGGAAAAA GTGAAGGAGA GGCTTTGGAC CTGGTGACAG    240
AGTGATCAGA TGACAGAGGG GTTTTGTGGA GACTCGAG                                278
```

(2) INFORMATION FOR SEQ ID NO:656:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 224 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:656:

```
GGAAGGAGAA GTGGAGAAGA AATCAGTCAG CCGCAGTGAA GAGCTCAGAA AAGAAGCAAG    60
ACAAATTAAAA CGGGAAGTCT TAGCAGCAAA ACAAAAAAAA GTAGAAAATG CAGCAAAACA    120
AGCAGAAAAA AAGAAGTGAA GAGGAAGAAG CCCCTCCAGA TGGTGCTGTT GCCGAATACA    180
GAAGAGAAAA GCAAAAGTAT GAAGCTTTGA GGAAGCAACT CGAG                                224
```

(2) INFORMATION FOR SEQ ID NO:657:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 253 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:657:

```

ATACAGTAAT CAAAGTAAGT AATATTTCAA TCCAATATTT TTAAAAATCA GAATTAATGC      60
AAAAAAAACC ATGATGAACA AAATATTAAA ATTTAAAATA AAGACAGGAT TAGTATTACT      120
GAGTTTTCCT TTTGTCCCAG GCTCTAATAT GGCTTGGCAT GGGGCAGAAC ATTACAACAT      180
ACCAGTCGTG TCATGGTGCC CAAGGCTCCA CAGACCTCAG TGGCTCCCTG CTGCCTGCCA      240
CAGCAATCTC GAG                                                              253

```

(2) INFORMATION FOR SEQ ID NO:658:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:658:

```

GAATTCGGCC TTCATGCACT TTTGAGCATC AGTTTCTTTT CACTCCTTCT TCATGTGCTA      60
TTCCTTCCAA ATCTTTCCCA CCTTCTTCTT TCTCTCCTCT GTCTTTTCTT CTCCCTCTTC      120
TGTTGTCTTC TGGTTTCCAT CTGTTTCTCC TTCTCCTTCC CCATTTCTCA CTATCCTCTC      180
TTCTGTCTCC TCACTTACTT CTCCATCCCT CCTCTCTCCA GCCCTCTCTC CCCCCTGTCT      240
CGAG                                                                    244

```

(2) INFORMATION FOR SEQ ID NO:659:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 75 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:659:

```

GAATTCGGCC TTCAGCCTAG TCTCAAACCT CAAGCAAACC TCCTGCAATC CCAGCGCTTT      60
AGGAGGCCGC TCGAG                                                            75

```

(2) INFORMATION FOR SEQ ID NO:660:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:660:

```

GCNTTCATGG CCTAAGTTCA CCTTTAANTC TTTCATGACC ATTTCCAGAN GCCCTTACCG      60
TGGGCTATCT TAGCTTGATG TGCTAATCAA GTTCCCCCTA ATTTGACATA CTAGAATCTA      120
ATACTAGAGG CAGCATGACA TTATTAAGGG GGAGGAGGTT GAGAAGCACT AACCTCGAAG      180

```

TTAGAATTTTC TGGTTTGTCA TCCCAGTCTG CTAATTAGCT TTCTGATTTA AGACAAAATA	240
CTTTTCTGT GCCTTCTGGG GGTCAAATTC GATTTTAAAG ATTCTCTCAG TTGGAAGAAA	300
TCTAACTAAA AATATACTTA AAATAATTCT TTGGTAGTAT ATTATTTTGA AATTTGGTCC	360
AGAATCCTAT TTGTTTATTC CTGTAGTATA CATACATCTG TAGTTACCCA GCAAGCGCGC	420
TCCCTATAGT GAGTCGTATT AATTCAGAG	450

(2) INFORMATION FOR SEQ ID NO:661:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 495 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:661:

GAATTCGGCC TTCATGGCCT AGAGAAAAAA AATTAGAGTG ATTTTCAGGAC TCAAAGGAAG	60
AGCCTTGCAA AGAGTTGGGA GGATTAACT CTATGGATT AAGCTCTGCC TGCAAAATAA	120
CATCGCTGGG AATTTAGACA CAAATTAGGA ATATTCTGGA ATTCATTTAG CAGCAAATCT	180
CCTGACTAGT TGTCAAATGG AGCTGTTCTA ATTGGCCTGT TCTAAATGGG CCTGTCCTAA	240
TTGCAGAAAT ATTGCAGAAT ATGTTTTTAG TAAGCTCTCT ATAGAAAGTC ACCTCTGAGT	300
TGCTCAGCAT TTAGATTCAA ATATTCAAAT GTTTTTTAAA AATGCCAGCA TATCAATTAT	360
ATTTGAAGAA CAGTATAGAG GCTTGAACA TGCCAAACAG CAGGGAACAG GAATAACCTT	420
TAATGAGTGC CTAATCTGGT GCAGGGTCCT TTACACACAT TACATTATGT GATCTTCACA	480
ACAAACCGAC TCGAG	495

(2) INFORMATION FOR SEQ ID NO:662:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:662:

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGGCC TTCATGGCCT ACGAGGAAAG	60
GTCAGAGAGA TGCGAAGTTT CTGGCTTTGA AGATGGGGAA AGGTCTCCAG CCAAGTGTGA	120
GCAGCCTCTA AGAGTCAGAG AAGCCAAGGA ACAGCTTCTA CTCTAGAGCC TCCAGAAGGA	180
TGGCAGCTCT GCTGATGTCT GGCCTTATCT CAGGGAGCCC TGTTGGATTT TGAGCTGGTG	240
GAACTGTGAG ATAATGACTG TGGTGTTTAA GCCAGTAAGT TGGTGTAAAT TGTTAATGTG	300
ACTGCAGAAA CCCAATAGAC CGAGTGCCTG TTGGGCTCTC CCTGTACAAA GGCAGAGGGA	360
CAGCAAGTGT GAGCAGGCCC TGCTGTGAGG TAGAGGGCAT CCTCTGAAGT GTGTGGGGAA	420
GGGGGAGCCT CACATGAGCC CAGGGCTGCC ACATGTTTCA TCTGAGCGCT CGAG	474

(2) INFORMATION FOR SEQ ID NO:663:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:663:

```

GAATTCGGCC TTCATGGCCT ACTCTACTCG TCGGTGCTT CTTCTCCTTG GCATACAGCT      60
CACAGCTCTT TGGCCTATAG CAGCTGTGGA AATTTATACC TCCCGGGTGC TGGAGGCTGT      120
TAATGGGACA GATGCTCGGT TAAAATGCAC TTTCTCCAGC TTGCCCCCTG TGGGTGATGC      180
TCTAACAGTG ACCTGGAATT TTCGTCTCT AGACGGGGGA CTTGAGCAGT TTGTATTCTA      240
CTACCACATA GATCCCTTCC AACCCATGAG TGGGCGGTTT AAGGACCGGG TGTCTTGGGA      300
TGGGAATCCT GAGCGGTACG ATGCTCCAT CTTCTCTGG AACTGCAGT CAACCTCGAG      360

```

(2) INFORMATION FOR SEQ ID NO:664:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:664:

```

GAATTCGGCC TTCATGGCCT ACCCTGTGAA AGTGGTGCCT GACTGTCTGA GGAGGGACGT      60
GGGCTAGAGA GTTCTCCCTG GGCTCAGGAA GGATAGCTTG GTTGGTAAGG GAATGCAGTG      120
TGGATGACAC TGAGGCTGCC AGAGGTCTTG GGTGGCTGC TCCTAGGTGG CTTGATGAAA      180
ATGGGAGGAC CAGAAGAATT GGAAGTTGCA GCCAACTGAT GGCTGCTACT GAAGATTCTT      240
GACAGGAAAT AGAAAATAGG ATGTAAGACC CTCCTCTCCT CTTCTGGCT CCCAATATTT      300
TCTGGTGATT CCCATTGGTG GATGCTAACA GGAATCACC TGGCAAGGGA GCTTGAGACA      360
TGAGTTTGA GAGCTCGAG                                     379

```

(2) INFORMATION FOR SEQ ID NO:665:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:665:

```

GAATTCGGCC TTCATGGCCT AATCACACAC CAACAAAACA CATTATTTT GTAATTTATT      60
TTCTCCTGAT ATTTATGCTA GAAAAGTCCA TTTGTATTTC TTTTACTATG GCATGTTTTT      120
ATAGTTCTG TCTTATTTT ATTAAGTTCA TGTTTTTACT CTTATTATC AGGAGTTCCT      180
ACCATATTTT ATNGCAAGC CTCGAG                                     206

```

(2) INFORMATION FOR SEQ ID NO:666:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 469 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:666:

```

GCCGATGAGG ACCAAGATNA AAACAGTGCT CAAAAGTCGT GGCCGCCAC CTACAGANCC      60
GCTGCCCCGAC GGTGGATCA TGACATTCCA TAACTCTGGA GTCCCGGTGT ACCTACACAG      120

```

AGAGTCTCGG GTGGTCACCT GGTCCAGGCC ATACTTCTTG GGAACGGGAA GCATACGGAA	180
ACACGACCCCT CCTCTGAGTA GCATCCCTTG TCTGCATTAT AAGAAAATGA AGGACAACGA	240
GGAACGGGAG CAAAGCAGTG ACCTCACCCC TAGTGGGGAT GTGTCCCCCG TCAAGCCCCT	300
GAGCCGATCT GCAGAGCTGG AGTTTCCCCT GGATGAGCCT GACTCTATGG GTGCTGACCC	360
GGGGCCCCCG GACGAGAAAG ACCCACTAGG GGCTGAGGCA GCCCTGGGG CCCTGGGGCA	420
GGTGAAGGCC AAAGTCGAGG TGTGCAAAGA TGAATCCGTT GATCTCGAG	469

(2) INFORMATION FOR SEQ ID NO:667:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:667:

GAATTCGGCC TTCATGGCCT ACACATACAA CAAACCGAAG CTTTCCGAAC CCGAAGAGGA	60
ACTTCTCCAG CAATTAAAC GGGAGGAGGT GTCCCAACA GGGAGTTTCA GTGCCCCACTA	120
CTTGTCGATG TTTCTCTTAA CTGCTGCCTG CTTATTTTTC CTAATACTGG GACTGACTTA	180
CCTAGGAATG AGAGGGACAG GAGTATCTGA GGATGGAGAA CTCAGCATAG AAAACCCCTT	240
TGGTGAAACA TTTGGAAAAA TACAAGAAAG TGAAAAAACT CTTATGATGA ACACATTATA	300
TAAGCTTCAT GATCGATTAA CACAGCTCGA G	331

(2) INFORMATION FOR SEQ ID NO:668:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:668:

GAATTCGGCC TTCATGGCCT AGGACCCAAA GTCCGCGTGG AACCGCGATA GGGATCTGTC	60
AGGGCCCGCG GCCGGGTCCA GCTTGGTGGT TGCGGTAGTG AGAGGCCTCC GCTGGTTGCC	120
AGGCTTGCTC TAGAGGTGGA GCACAGTGAA AGAATTCAAG ATGCCACCTA ATATAAACTG	180
GAAAGAAATA ATGAAAGTTG ACCCAGATGA CCTGCCCGT CAAGAAGAAC TGGCAGATAA	240
TTTATTGATT TCCTTATCCA AGGTGGAAGT AAATGAGCTA AAAAGTGAAA AGCAAGAAAA	300
TGTGATACAC CTTTTCAGAA TTAATCAGTC ACTAATGAAG ATGAAAGCTC AAGAAGTGGA	360
GCTGGCTTTG GAAGAAGTAG AAAAAGCTGG AGAAGAACAA GCAAAATTG AAAATCAATT	420
AAAAACTAAA GTAATGAAAC TGGAAATGA ACTGGAGATG GCGCACTCGA G	471

(2) INFORMATION FOR SEQ ID NO:669:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:669:

```

GAATTCGGCC TTCATGGCCT AGAGAGGTTG CTCATTCGTC AGAGCGTGCT GCCCACCCTC      60
CACCCCTGCA TGGCAGAAAC TGTGCAGGGG ACGAGGCCAA GGAATCAGGA GACCCAGAGG      120
CAGGGGTGGC CCGGAGACGG TGAAGAAACC AAGACGCAGA GAGGCCAAGC CCCTTGCCTT      180
GGGTACACA GCCAAAGGAG GCAGAGCCAG AACTCACAA CAGATCCAGA GGCAACAGGG      240
ACATGGCCAC CTGGGACGAA AAGGCAGTCA CCCGCAGGGC CAAGGTGGCT CCCGCTGAGA      300
GGATGAGCAA GTTCTTAAGG CACTTCACGG TCGTGGGAGA CGACTACCAT GCCTGGAACA      360
TCAACTACAA GAAACGGGAG TATCTCGAG                                     389

```

(2) INFORMATION FOR SEQ ID NO:670:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:670:

```

GAATTCGGCC TTCATGGCCT AGTGTACAA AATATAGAAA GAAAAGAACA AACAAAAAAA      60
GAGACAAAGG TGAATACCT TTTTGAAATA AAAGAGAGCT AGCAATGCAG TACATGGTCC      120
TTGCCCTATT ACTATCCATC CTCATCCTAG CAATAATCCC CATCCTCCAT ATATCCATAC      180
AACAAAGCAT AATATTTGCG CCACTCGAG                                     209

```

(2) INFORMATION FOR SEQ ID NO:671:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:671:

```

GAGTTCATTC AAGATATTTT TCACTTGCTG TTCAGGAGCT TTGATGTGCG TCACCATTC      60
TGGCATGTTC ACGCTGTTC TGTGCAGGTA TTTCAGGAAG ACGTCTGCAT TCCTCCGAGC      120
AAGGGTGCAA GCCTTCAGGA ATGCCTCCTT CTGCTCCAGG TGCTTGCTGA TCATGGGCGT      180
CACGTGGTCC GTCTCAGAGT TTGGGCCAG CTTATCCGCC CCGCCACACC AGTCTTCTTC      240
TCTCTGTAC TCCCTGTTC AGGCTCTCGA G                                     271

```

(2) INFORMATION FOR SEQ ID NO:672:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:672:

```

GAATTCGGCC TTCATGGCCT AAGATAAATT TGACAAAGTT AACTGAAATT TATCTGGTCC      60
ATTTTATTCA TGCTACTAAG ATGGGAATCT TTAACACAA GGGTCAGCAA GCTTTGGCCC      120
ATGGATTGGC CACCTGTAC GTAAATAAAG TTTCTTTGAA ACAAGCCTAC ACTCATTAT      180
TTATGTTTTG TCTGTGTTG CTTCCACAA CTGCAGAGTT GTATGGCTTG CAACTCTAAA      240

```

AACATTACT ATTTGGCCCT CTAAGAAAAA GTTAAGACAC CTAGTCTAAT GGCCTTTTGG	300
GAAAAAACAA ATCACTAACT CATAATCATT TATATCCATT ATTTTCTGCA TAAATGTAAT	360
GCTATTGTAC AGGGTACTCG AG	382

(2) INFORMATION FOR SEQ ID NO:673:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 526 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:673:

GAATTCGGCC TTCATGCCTA CCAAATTTGT CTAAGCACTG GCCAGTCTGT TGTGGGCATT	60
GTTTTCTACA ACCAATCTG GGTTTTTTTC TTCTTCTTT AACATAGAG GTACCACCAC	120
AAGGGATGCC CTA CTCTCTC GCAGCTCTG AAAGCATCTG TTTGAGGGAA AGGTCTCTGG	180
GCAAGCAAGT GGTATTTTGG ATTGCTTGCT TCCCTTTTTC CACCTGGGAC ATTGCAATCA	240
TAAAATAACA GTAAATTCCA AACCTCAAAA ACTATTATGG CCTGAGCACA GCTGAAATCT	300
AGCAGAGTTT AACTCTTCTG CCTCCATGTC TGCTCACTTAT AATTCAGGT CTGCTGTTGG	360
CTTCAGAACA TGAGCAGAAG AATCGTTTTA TGCTAGTTAT TGCATTCATG GTTGAAACTC	420
AACTTAGGGA AAGGGTTCCA ATGTATTAAG CAATGGGCTG CTCTCCCCA ATCCTCCCTA	480
ACAATTTGTT GTGTGGACTT CTCATCTAAA AGGTTAGTGA CTCGAG	526

(2) INFORMATION FOR SEQ ID NO:674:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:674:

GAATTGCTTC TCAATTTACC CGAGATTTC TTCGAGATTC AGGTGTTGTC TCACTTATTG	60
AAACCTTGCT TAATTATCCA TCCTCTAGAG TTAGGACAAG TTTTGGAA AATATGATTC	120
ACTGGCTCGA G	131

(2) INFORMATION FOR SEQ ID NO:675:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:675:

GAATTCGGCC TTCATGGCCT ACCTAATCTT CCTTTTCTTT TTAGCATTTT TGGGCTTTTC	60
AAAGCAATCT CCCCAAAAAA AGAATCATTT GGTTTTGGAA AAGAAAACAG AATCAGCAAC	120
TTTTCGGGTG TGTGGTGAAA ATGTCACGTG TGTGGAATAC GCTATCTCCT GGCTACAAGA	180
CCTGATTGAA AAAGAACAGT GTCCTTACAC CAGTGAAGAT GAGTGCATCA AAGACTTTGA	240
TGAAAAGGAG TATCAGGAGT TGAATGAGCT GCAGAAGAAG TTAAATATTA ACATTTCCCT	300

GGACCATAAG AGACCTTTGA TTAAGGTTTT GGGAATTAAC AGAGGACTCG AG

352

(2) INFORMATION FOR SEQ ID NO:676:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 251 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:676:

GAATTCGGCC TTCATGGCCT AAACCCATAA AACAGGAATT CCTTATAATC CTAGAGGACA	60
AGGCATTATA GAATGGGCAC ATCAAACATT ACAACGAATG TTGAAAAGAC AAAAAGGGGG	120
TATAGGAGGC CAACTACCAC CTCAATCAAA ACTACATTTA GCCTTATTTA CTTTAAAATT	180
TTTGACTCCT GGTACGGATG GTAAGACTCC AGCAGAAAGA CATTGGCAAG TGTTAGAGGA	240
AAAGACTCGA G	251

(2) INFORMATION FOR SEQ ID NO:677:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 331 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:677:

GGGCATTGTC AGTTTTCTTC CCTGCTGCAT GTAATGTCTC AGAATCAACA TTCTTTTAA	60
ATCTAGACTA TATTTTGAGG CAATGAATTA CTTATATTCA ACTTAGGCTT GTTTTGACAT	120
TCAGTAGAAC TTAAAGTTCA ATCTAAAGGC TTCAGTCCAC ATTTTTTTAT ACGTTGTATT	180
TTAAAAACGT TTGAAAGGAG TCTTACACCT GTATCATGAA AACTGAATCC TTTTGAAATA	240
CCACTATATG AAGAGAGAGA TGAAATTTAG TGAACAGAAT TGAAAAGGTG CTCATAATTT	300
CACTATGCAA ACTTACCCCA GTCAACTCGA G	331

(2) INFORMATION FOR SEQ ID NO:678:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 262 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:678:

GAATTGAACA ATGCTGACAG GCTGGTANTC CTGCCCTGAA GCAACTCACA GACTCATAGT	60
TATAGAACAT CTTTATCTTT AGTTAATCCA TNGCACAGCA TTGGCCAAGG GTCAATACCT	120
TGTAATAAGC ATGTGTGTAT TGGTCAGGGT TCTACAGAGA GACAGATCAA TAGGAGCTAT	180
CGATAGATAT AGACATATGA GAGGGGGTTT GTTAGGGGAA TTAGCTCACT TGATTACAGA	240
GGTTGAGAAG TCGTCCTCG AG	262

(2) INFORMATION FOR SEQ ID NO:679:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 336 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:679:

GAATTCGGCC	TTCATGGCCT	AGCAGCCCGA	GGCCTTGAGG	CCACTGCCTC	CCCAGGGCTC	60
CTGAAGCCAA	AGAATGGAAG	TGGTGAGCTG	AGCTACGGAG	AAGTGATGGG	TCCCTTGAG	120
AAGCCTGGTG	GAAGGCACAA	ATGCCGCTTC	TGTGCCAAAG	TATTTGGCAG	TGACAGTGCC	180
CTGCAGATCC	ACCTTCGTTC	CCACACGGGT	GAGAGGCCCT	ATAAGTGCAA	TGTCTGTGGA	240
AACCGTTTTA	CCACCGTGG	CAACCTCAA	GTGCATTTCC	ACCGGCATCG	TGAGAAGTAC	300
CCACATGTGC	AGATGAACCC	ACACCCAGTA	CTCGAG			336

(2) INFORMATION FOR SEQ ID NO:680:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 389 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:680:

GAATTCGGCC	TTCATGGCCT	AAATTAAAGA	TGATTTTTTT	AATGTGAATA	AAGTTATGTT	60
CTGATAGTTT	GTACAGAAAA	AATAAAATGG	ATGCCCATGT	TTTATTGCTA	TTACTAAATG	120
TCAAGATTGT	ATGCTATTAT	GTCTTGTA	TTTCTTTTGT	TGGTGTAAT	ATGGAAATGC	180
CACATTGGTT	AAGTGCCATC	ATTTGTAATG	CAATGTGTCA	CTTGAAAAGA	GATTTGAAGA	240
AAGTGACAAC	TTCAAAAACA	AATGAGAAGC	CCAAGGAAC	GTGAGCAATT	AAAAGCAAAC	300
CGCGACACCC	TTTGTCTCCA	CCACACATAG	TGTACTTTGG	AAGCACAACG	TCCAGGCTGG	360
TACCGCAGCG	CCATGCCC	TCCTCGCCG				389

(2) INFORMATION FOR SEQ ID NO:681:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:681:

GATTTCTCTG	TTGACTTCTG	CAGTGAACCA	CCTCAAAGCC	AATGTTAAGT	CAGCTGCAGA	60
CTTGATTAGC	CTGCCTACCA	CTGTAGAGGG	ACTTCAGAAG	AGTGTAGCTT	CCATTGGCAA	120
TACTTTAAAC	AGCGTCCATC	TGCTGTGGA	AGCACTACAG	AAAAGTGTGG	ATGAACACAA	180
GAAAACGATG	GAATTACTGC	AGAGTGATAT	GAATCAGCAC	TTCTTGAAGG	AGACTCCTGG	240
AAGCAACCAG	ATCATTCCTG	CACCTTCAGC	CACATCAGAA	CTTGACAATA	AAACCCACAG	300
TGAGAATTTG	AAACAGGATA	TCCTGTACCT	TCACAACTCT	TTAGAGGAGG	TAAACAGTGC	360
CCTAGTGGGG	TACCAGAGAC	AGAATGATCT	TAAACTCGAG			400

(2) INFORMATION FOR SEQ ID NO:682:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 311 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:682:

```

GGAGATCGAA AATTGAAACT CTCAAAGAGA CAACAAATAG CATGGTAGAA TCAATTAAAC      60
ACTGCATTGT GTTGCTGCAG ATTGCCAAAA GTACTATTAA TCCCGTAGAT GCAATATATC      120
AACCTAGTCC TTTGGAACCT GTGATCAGCA CAATGCCTTC CCAGACTGTG TTACCTCCAG      180
AACCTGTTCA GTTGTGTAAG TCAGAGCAGC GTCCATCTTC CCTACCAGTT GGACCTGTGT      240
TGGCTACCTT GGGACATCAT CAGACTCCTA CACCAATAG TACAGGCAGT GGCCATTAC      300
CACAACTCGA G

```

(2) INFORMATION FOR SEQ ID NO:683:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 308 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:683:

```

GTGAGGGGTT CCGTGA CTGA GGTCTGAGC TGCTGTTGAT GTGCTATACC TCCTTCAATT      60
CTCAGCTCTC AAAGGGGAAA ACAACTGCAG AGGATGGGAA ATGCTATACT GCCATGCCTG      120
GAAACACCCA CAGGAAAATT ACCAGTTTTG AGCTTGCTCA ACTGCAAGAA AACTGAAGG      180
AGACAGAAGC AGCCATGGAA AAATTAATCA ACAGAGTGGG ACCTAATGGT GAGAGAGCAC      240
AGACTGTGAC TTCTGACCAA GAGAAACGGT TGCTACATCA GCTCCGAGAA ATCACCAGAG      300
GTCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:684:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 448 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:684:

```

GCTCCGGACA ATGAAACATA ACCAATACTA CCAATCAATA CTCATCATTATAATCATAA      60
TGGCTATAGC AATAAAACTA GGAATGGCCC CCTTTCCTT CTGAGTCCCA GAGGTTACCC      120
AAGGCACCCC TCTGACATCC GGCCTGCTTC TTCTCACATG ACAAAACTA GCCCCATCT      180
CAATCATATA CCAATCTCT CCCTCACTAA ACGTAAGCCT TCTCCTCACT CTCTCAATCT      240
TATCCATCAT AGCAGGCAGT TGAGGTGGAT TAAACCAAAC CCAGCTACGC AAAATCTTAG      300
CATACTCTC AATTACCCAC ATAGGATGAA TAATAGCAGT TCTACCGTAC AACCTGACA      360
TAACCATTCT TAATTAACT ATTTATATTA TCCTAACTAC TACCGCATTC CTACTACTCA      420
ACTTAACTC CAGCACCACG GGCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:685:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 312 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:685:

```
GTTGACAAAC AAGCTCAAGC TCGGATAAA ATGAAGGAGC AGGAAGACCT GGCCAAGGTG      60
GTATCTAAAG AAGAATCAAT TGTTCATCA TTACGATTAG CCTATAAGGA TCTTGAAATT      120
CAAATGAAGA AAGACGAAAA GATGAACATT AGTGGCAAAA AAAATGTTGA CTCAGACAGA      180
CTCGGCATGG GATTGGAAA TTGCAGAAAT GTTATTTTAC ATTCAGTGAC TTCAGATATG      240
CAGACCATAG AGCAGGAATC ACCCATATG GCAAAACCAA GAAAAAGTA TAATGATGAC      300
AGTGAACCTG AG                                     312
```

(2) INFORMATION FOR SEQ ID NO:686:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 264 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:686:

```
GTAATGGCAC AATGGATTCA AATGGGACAT TTGTTAATGT AACATGAGC ACATTTAACT      60
GGAAGGATTA CATTGGAGAT GACAGTCACT TTTATGTTTT GGATGGGCAA AAAGACCCTT      120
TACTCTGTGG AAATGGCTCA GATGCAGGCC AGTGTCCAGA AGGATACATC TGTGTGAAGG      180
CTGGTCGAAA CCCCAACTAT GGCTACACAA GCTTGACAC CTTTAGCTGG GCTTTCCTGT      240
CTCTATTTTC ACTCATTCTT CGAG                                     264
```

(2) INFORMATION FOR SEQ ID NO:687:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 277 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:687:

```
GGGAACAGCA GTTCCTATGG CTTTTTTTTT TTTTCTCTG TGTATGAGCA ATTCGACTCA      60
GTGGGATGAT ATTTTCTTTT ATAACCTATT AATGTTTGGC ATACCGTGTA CTCAAATATT      120
CAATGTCAGC TGTCAGCTAC CATTGGGATC CATCCACAG ACCATCAAAA TGTACTTTTG      180
GGCTGAATTA GTCCTATGCC AAGACTTGTG GGTGGATCCA GCAGCAGTTG GGAACACGT      240
GCCAGGCCTG GTGTATGTGC TCACGAACAC ACTCGAG                                     277
```

(2) INFORMATION FOR SEQ ID NO:688:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 393 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:688:

GAATTCGGCC	TTCATGGCCT	AAATAGTTTA	GTTCTCTGGT	GCAATTTGAA	GTATATCTTA	60
TAGTCACTTT	TAGTAATGTG	TGTTACTTCC	CTGTAAGGAA	TAGCAATGTT	ATACTTCTCC	120
TTTTGCAGTG	AAGAAATTGA	GATGTAGAAA	GGAAGAGACC	TGCCCCAAGT	CAAAGAGCAA	180
CGCAGTGGAA	AGCCTGAGAT	TAGACTTGTG	GTCTTTTAGA	TTTTTCATCT	GTTGTTCACC	240
ACTGAGGAGC	CAGCTTTCTG	TTTGCTGGAG	ACAGTTCAGC	CTAATGGAAT	TTTCTCTGCC	300
AGATGTCCAC	ATTGTGTTAG	GTGATGATTC	TAACCATCCT	CTAATACCCA	TTCTCCTCCA	360
AAGTGGCCCT	TAGTTCCCC	ACCAGAACTC	GAG			393

(2) INFORMATION FOR SEQ ID NO:689:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 477 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:689:

GAATTCGGCC	TTCATGGCCT	ACTGTTCTGC	TCCTCCCAGA	CAGAGCCTTT	CCCTCAGCCC	60
AGGGGGTCAG	GGGGTGAGGG	AAAGGCTCTG	TCTGGGAGGA	GCAGAACAGC	AGAAGAGAGG	120
AGGAGGCAGG	GAGTTACAGG	AACCTGGGGT	ACCAGGCTGC	TGGGAAGATG	CAGATTATGA	180
CAGAGCTTGC	ACGATGCTGG	CACCCCATGC	CAACCACTCT	ACGTGGCTTT	CCTCTTCGGA	240
GAGGTGGTGG	GCTCCCTTCT	TCACTGTGCC	CTCCCTCCTC	TGGCCACTAG	GGGTGGGAAA	300
TACGAGTGAG	AATCCTTCCA	GATTTACTTC	CGCCAATCCA	GAGGTACAGG	CTTTTAGGCA	360
AGGGGCAGAG	AACTGCCCAA	TTTGCTGCTT	CATGGCCTAG	GGGTGGGGTT	CCTTAGGAGC	420
TGAAAAGTTG	AACAAGGTGT	GTGAGCAGGT	GGCTTGTTCC	TTGGTTTCAA	GCTCGAG	477

(2) INFORMATION FOR SEQ ID NO:690:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 598 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:690:

GAATTCGGCC	ATCATGGGCT	AAGACGTGGT	ANTGACATGC	CTGTAGACCC	AAGTATTTGG	60
GAGGCTGAGG	TGAGAGGTTT	GCTTGAGCCC	TGGAAGTCGA	GGCTTCAGTG	AGGCAAGATC	120
ACACCACTGC	ACTCCAGCCT	GGGAGAGCAA	GACCCTGTCT	CCAAAACCAA	AAAAAAGGG	180
AAAAAAGTAA	ATGTTATAGA	TACTTGCTAA	GGGCTTTGTA	TATACTTATT	ATTGTTATTT	240
CTCAGCACGT	ATGTAGCAGA	TGAGGAAATG	AAGGCTAAAG	GTCAATATATN	TACAAAGTGG	300
GGAGGTCAGA	CTTTGAACCC	ACAACCTGAC	TGTGGAGCCA	CTTCAGTATA	CTCTCTCCCC	360
ATAAGAAAGT	TCCAATAGAA	AAAAATGCT	ACTTAAGTAG	GGAAATCACA	AAATAAGTGC	420
CAATGAACAA	TAAATGTTCA	ACCTCACTAC	AGTTAAATG	TATATTAAAG	CAAGAGTTGA	480
GATGACACTT	TTCTTATAA	AACAGACAGG	GATTCAGGGA	CATTGGGACT	CTAATGCTGC	540
TGTAAGACA	TGAATAAATA	CATACCATCT	CTGGCAATCA	ATACCAGAAG	ATCTCGAG	598

(2) INFORMATION FOR SEQ ID NO:691:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 406 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:691:

```
GAATTCGGCC TTCATGGCCT AGTTCTCCCT TCCATTCTGC CTTGTATCT TTGCAGTCAT    60
TGTATACAGC AGATTCTAGA AAGTGTTAAT CATTGTCACC TAAATGGCAT AGTTCACAGG    120
GACCTGAAGG TCAGTATATG GAGTCCATAA ATCTGAATCA AAGCAGTTTT ATTTTTTTTT    180
CTGGGGAAG GGCAGAGGGT GGGTATTTAA AATGGTTCCC TTGCCTTTCC CAACTTGTTT    240
CTAAAATGAG TAAATGATGA AATGATAATG CATGATGCCT CTTCCAGTTT GCTCATCTAC    300
AGGCTAAATA TACATCATAG CAAAAGGGA AGAATACTAA AGAATACAAC CTGCTAAGTT    360
TCCAAGCAGT AACTACCTA CAAAAGGGA TTGAGGATCC CTCGAG    406
```

(2) INFORMATION FOR SEQ ID NO:692:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 263 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:692:

```
GTCCTGGAAG AATGTGTCCA GCAACCCAAA AACTAATAGA AGAGTCACAG AGAAAAATGA    60
ACGCTTTTATT TGAAGGTAGA CGCATCGAAT TTGCAGAAC AATAAATAAA ATGGAGGCTA    120
GGCCTAGAAG ACAATCAATG AAGGAAAAAG AGCATCAGGT GGTCCGTAAT GAAGAACAGA    180
AGGCGGAACA AGAAGAGGGT AAGGTGGCTC AGCGAGAGGA AGAGTTGGAG GAGACAGGTA    240
ATCAGCACAA TGATAGACTC GAG    263
```

(2) INFORMATION FOR SEQ ID NO:693:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 404 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:693:

```
GCCGCCGAAG AAGCATCGTT AAAGTCTCTC TTCACCCCTGC CGTCATGTCT AAGTCAGAGT    60
CTCCTAAAGA GCCCGAACAG CTGAGGAAGC TCTTCATTGG AGGGTTGAGC TTTGAAACAA    120
CTGATGAGAG CCTGAGGAGC CATTTTGAGC AATGGGGAAC GCTCACGGAC TGTGTGGTAA    180
TGAGAGATCC AAACACCAAG CGCTCCAGGG GCTTTGGGTT TGTCACATAT GCCACTGTGG    240
AGGAGGTGGA TGCAGCTATG AATGCAAGGC CACACAAGGT GGATGGAAGA GTTGTGGAAC    300
CAAAGAGAGC TGTCTCCAGA GAAGATTCTC AAAGACCAGG TGCCCACTTA ACTGTGAAAA    360
AGATATTTGT TGGTGGCATT AAAGAAGACA CTGAAGTCCT CGAG    404
```

(2) INFORMATION FOR SEQ ID NO:694:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:694:

```
GAATTCGGCC TTCATGGCC TACTGGATGG CTTTTATCT TTTGCTTTC TTTTATGGCA    60
GATGCCTTTC CATCGGCATC CCAGCTGTGG CTGGGGACCT TTTGGGAAGT GTGTTTGGCT    120
CACTCCGAGA GAACGAGGTC TCAAGAGGAA GTGTGTCTGG CTTGCAAAGA TGTCCCTGGG    180
CCTGGACAGG ACCCCGCTGT GTTCTGCAGC CCTCGACGCA GTGGGTGAGT GAGGCCTTCC    240
TCTCCTGCTG GCTGCCCTGG AGGATTTCAG CATGTCCCAG GATTGCTCC ACCCTCGAG    299
```

(2) INFORMATION FOR SEQ ID NO:695:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:695:

```
GAATTCGGCC TTCATGGCCT ACCTGTTGAA AACTCTCCAA TGACTTCCCA CTCCATCATC    60
CTGTGGGATG GGTCCACCAT GCTGGACCAC AAGGCTCTGC ACAATGCGGC TCCCACCAGC    120
CTCTCCCCTT GGCCAGATT GCTTCCTCCT ACCCCTTTCT CTAGCTGCCA GGCCCCCAA    180
CCCCCGCATG GAGCCCTTCA GCAGCTCTGT GAGCTCCCTG CCTGTTGGCA GCCATCACAG    240
CAACGGGCTC TGGTGTGCCC CTGTTATCC CTGTATTCAG GCCATTATCT GTAATGACAG    300
CCTGGCATAA TTTTATTTTC ACAATTGTA TAATTATATT CTATTGAGCT AAATGATCAT    360
TATAATCATT ATTAAATATT TATTAAGCAC TTCTAGCTGT GCAAACATAA TAAGATGTGG    420
CCTCAGCTCT TAAATCTTT CTCCTAATT CCAACCCAAA TACTCGAG    468
```

(2) INFORMATION FOR SEQ ID NO:696:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:696:

```
GAATTCGGCC TTCATGGCCT ACAAGGGAAC ATGTAAACTA ACATAACCAA TTGTCAGTTC    60
TCCATGTATT CCTCAAAGA ATGTCAGAGT AAATGTATTA GAAATACAGT ATCCAGACTG    120
CTAGTCCTTG CCAGAGACAT TCTTACCTCT GCCCTGTGAT AATATTTTAT GCTTGACAGT    180
GAAAACAAGT GTGGCCCTT GCACCGGTTA GCTAGAAGTA CAGCCAGATT TCAAGCTAGT    240
GCAGTCACCT CTTCCGTCAT TCTTACAAA TCTGTGCAAC CTGGATCTTA GACTTCATCT    300
GAACTCGAG    309
```

(2) INFORMATION FOR SEQ ID NO:697:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 464 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:697:

GAATTCGGCC TTCATGGCCT ACACGGATCC GTGTGAAGAC CTACACAGAT GAGCTGACGC	60
CCATTGAGTC TGCTGTCTCT GTGTTCAAGG CAGCCAACCTG GTATGAAAGG GAGATCTGGG	120
ACATGTTTGG AGTCTTCTTT GCTAACCACC CTGATCTAAG AAGGATCCTG ACAGATTATG	180
GCTTCGAGGG ACATCCTTTC CGGAAAGACT TTCCTCTATC TGGCTATGTT GAGTTACGTT	240
ATGATGATGA AGTGAAGCGG GTGGTGGCAG AGCCGGTGGA GTTGGCCCAA GAGTTCCGCA	300
AATTGACCT GAACAGCCCC TGGGAGGCTT TCCAGTCTA TCGCCAACCC CCGGAGAGTC	360
TCAAGCTTGA AGCCGGAGAC AAGAAGCCTG ATGCCAAGTA GCTCCAGGGA ACGCATGTGG	420
ATCCTAGACA GCGCCTTATC TATGATTGAG TGCCATTCT CGAG	464

(2) INFORMATION FOR SEQ ID NO:698:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 412 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:698:

GAATTCGGCC TTCATGGCCT ACGGTGGTGA ACGAGTCTCC AGCACCATGT CTGGTTTGTC	60
TGGCCCAACCA GCGCGGCGCG GCCCTTTTCC GTTAGCGTTG CTGCTTTTGT TCCTGCTCGG	120
CCCCAGATTG GTCCTTGCCA TCTCCTTCCA TCTGCCATT AACTCTCGCA AGTGCCTCCG	180
TGAGGAGATT CACAAGGACC TGCTAGTGAC TGGCGCGTAC GAGATCTCCG ACCAGTCTGG	240
GGGCGCTGGC GGCCTGCGCA GCCACCTCAA GATCACAGAT TCTGCTGGCC ATATTCTCTA	300
CTCCAAAGAG GATGCAACCA AGGGGAAATT TGCCTTTACC ACTGAAGATT ATGACATGTT	360
TGAAGTGTGT TTTGAGAGCA AGGGAACAGG GCGGATACCT GACCAACTCG AG	412

(2) INFORMATION FOR SEQ ID NO:699:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 139 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:699:

CAGCTCCTGT GACATTTGAA GTTCTTTTAA AAGGGGTTTT TCTTAATCAA AGTTTTACAT	60
TTGGTAGCAT AAGTAGTTCT TTATGCTTCA CAGGACATTG TCTTCAGAGT AATCTCTCTG	120
CTAAAATGGT ACATGTGGG	139

(2) INFORMATION FOR SEQ ID NO:700:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 406 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:700:

GAATTCGGCC	TTCATGGCCT	ATGAAATGAT	ACCTATGGAG	TGTGATTCAT	TTGTCAGTGA	60
CCAAAATGAA	TCTGAAGTTG	AACCATCTGT	AAATGCTGAT	CTTAAACAAA	TGAATGAAAA	120
TTCTGTGACA	CACTGTTCTG	AAAATAATAT	GCCGTCTTCT	GATCTTGGCG	ATGAAAAGGT	180
TGAAACTGTT	TCTCAACCAT	CTGAAAGCCC	AAAAGATACC	ATAGATAAAA	CCAAAAAGCC	240
TCGTACTCGA	AGATCTAGAT	TTCATTCTCC	ATCTACAACT	TGGTCACCCA	ACAAAGACAC	300
TCCACAAGAA	AAGAAGCGGC	CCCAGTCTCC	ATCTCCAGA	AGAGAAACTG	GGAAAGAAAG	360
CAGGAAGTCT	CAATCACCAT	CTCCTAAGAA	TGAGTCAAAC	CTCGAG		406

(2) INFORMATION FOR SEQ ID NO:701:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 511 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:701:

GGCAAGATGG	TGTTGCAGAC	CCAGGTCTTC	ATTCTCTGT	TGCTCTGGAT	CTCTGGTGCC	60
TACGGGGACA	TCGTGATGAC	CCAGTCTCCA	NACTCCCTGG	CTGTGTCTCT	GGGCGAGAGG	120
GCCACCATCA	ACTGCAAGTC	CAGCCAGAGT	GTTTGTACA	GCTCCAACAA	TAAGAACTAC	180
TTAGCTTGGT	ACCAGCAGAA	ACCAGGACAG	CCTCCTAAAC	TGCTCATTTA	CTGGGCATCT	240
ACCCGGGAGT	CCGGGTCCC	TGACCGATT	AGTGGCAGCG	GGTCTGGGAC	AGATTTCACT	300
CTTCACCATC	AGCAGCCTGC	AGGCTGAAGA	TGTGGCAGTT	TATTACTGTC	AGCAGTATTA	360
TAGTAGTTGG	ACGTTGGGCC	AAGGGACCAA	GGTGAAATC	AAACGAACTG	TGGCTGCACC	420
ATCTGTCTTC	ATCTTCCCGC	CATCTGATGA	GCAGTTGAAA	TCTGGAACTG	CCTCTGTTGT	480
GTGCCTGCTG	AATAACTCCT	ATCCGCTCGA	G			511

(2) INFORMATION FOR SEQ ID NO:702:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 456 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:702:

GAATTCGGCC	TTCATGGCCT	AGGGATGGTC	TTAACAGGGA	ANAGAGAGGG	TGGGGGAGAA	60
AATGTTTTTT	TCTAAGATTT	TCCACAGATG	CTATAGTACT	ATTGACAAAC	TGGGTTAGAG	120
AAGGAGTGTA	CCGCTGTGCT	GTTGGCACGA	ACACCTTCAG	GGACTGGAGC	TGCTTTTATC	180
CTTGGAAGAG	TATTCCAGT	TGAAGCTGAA	AAGTACAGCA	CAGTGCAGCT	TTGGTTCATA	240
TTCAGTCATC	TCAGGAGAAC	TTCAGAAGAG	CTTGAGTAGG	CCAAATGTTG	AAGTTAAGTT	300
TTCCAATAAT	GTGACTTCTT	AAAAGTTTIA	TAAAGGGGA	GGGGCAAATA	TTGGCAATTA	360
GTTGGCAGTG	GCCTGTTACG	GTTGGGATTG	GTGGGGTGGG	TTAGGTAAT	TGTTTAGTTT	420
ATGATTGCAG	ATAAACTCAT	GCCAGATATT	CTCGAG			456

(2) INFORMATION FOR SEQ ID NO:703:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 439 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:703:

```

GAATTCGGCC TTCATGGCCT AGTCCTTTCG TCTACTGTTG AATGGAGGAG GATTTTTTTT    60
TTTTTCCCTC NACACAGGGG TTTTCTTGGA GCTCAAGTTT GGATGACCCC AGACAGTAAG    120
ATAATCTCAT CATGGTAAAG TTAATATGAA ATATGTGGTC TCCAAACAGC CTCTCCCAGA    180
GGCCAGGATC AGCAGGTTTG AGTGGATAAT TGGCTTGTGG TCATTTTCTC ATAGGATTTT    240
TCTTTTAGTA GTGAAACTG TTTTTCAAAT CAAATTGGA TGCCAACTAT GTGGAACAGA    300
AGTGTGGCTG CTCTGGTGA AGTGGCAATG GTAGTCCTAG AGTCTCCCTG TCAGCCACAC    360
CCTTTGTCTC CCCCTACCCA AGGGACCCCTG TGGCCTGGAA CCGCAGTGTG AAATGCTATA    420
TAGTGCAATG AAGCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:704:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:704:

```

GAATTCGGCC TTCATGGCCA ACAGCTGAGA TAACGAGGAA ATATTCTGAA ATGGATCCCA    60
AATATTTTCAT CTTAATTTTG TTTTGTGGAC ACCTGAACAA TACATTTTTT TCAAAGACAG    120
AGACAATTAC AACAGAGAAG CAGTCACAGC CTACCTTATT CACATCATCA ATGTCACAGG    180
TATTGGCTAA TTCTCAAAAC ACAACAGGGA ATCCTTTGGG TCAACCAACA CAATTCAGCG    240
ACACTTTTTC TGGACAATCA ATATCACCTG CCAAAGTCAC TGCTGGACAA CCAACACCAG    300
CTGTCTATAC CTCTTCTGAA AAACCAGAAG CACATACTTC TGCTGGACAA CCACTTGCCT    360
ACAACACCAA ACAACCAACA CCAATAGCCA ACACCTCCTC CCAGCAAGCC GTGTTACCT    420
CTGCCAGACT ACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:705:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 403 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:705:

```

GAATTCGGCC TTCATGGCCT ACATTCACAT GTTCCCAATC ACTTCCCTCA CACACATATG    60
CTCACTGATT TACACAGCCA TTCGCACTTA TACATACTCG NTCACATTCA CACAGGGTCA    120
CCCATTACAC CACACTCGAC ACATTTACCC TCACATTAC CCACTCACCA TTCCCACTCA    180
CCAGTTCACA TGCACCTACC CAAGCTCACA CTTGACCAG GACACACCCT CAAACATAGG    240
TGCTTACACA CAAGCCNACA CACACTCACC TAGCCATTCA TACTCACGTG CACCTATACC    300
TTCACACACA TCCTCACATA CCCACACAGC TCTACACATA CCCACTTTCT TACACATTCA    360
CACACATACC TATAGACACA TTCAAACACA CCCNACGCTC GAG

```


(2) INFORMATION FOR SEQ ID NO:706:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 501 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:706:

```

GAATTCGGCC TTCATGGCCT ACTCAGAATC ATAATGAAGT CCAGTCTACC ACACCACCCT      60
TCACTACTGT TGATTCACAG AAAGACTGTA GAAAATTTCC AGTTCCACAG AAGGATGGTA      120
GTGCTTTTGA GGATTCTAGC ACTTCAGGGG CATCCTGTTC CAAGTCAAGA CCACATTTAG      180
CTGGGACACA TACTTCTCTT AGACTTCCGC AGGAAGGAAA AGGAACCTGT ATTCTTGTAG      240
GTGGTCATGA AATCACTTCT GGATTAGAAG TAATTTCTTC CCTAAGAGCA ATTCATGGGT      300
TGCAAGTAGA AGTTTGTCTT CTTAATGGCT GTGATTACAT CGTGACTAAT CGCATGGTGG      360
TGGAAAGGAG GTCTCAATCT GAGATGTAA ATAGTGTCAA TAAGAACAAG TTCATTGAGC      420
AGATCCAGCA CCTGCAGAGT ATGTTTGAAA GAATATGTGT GATTGTGGAA AAGGACAGAG      480
AAAAACAGG CGAACTCGA G                                     501

```

(2) INFORMATION FOR SEQ ID NO:707:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 403 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:707:

```

GAATTCGGCC TTCATGGCCT AGGACAACCTG TGATATTTCA GTTCCTGATT GTAAATACCT      60
CCTAAGCCTG AAGCTTCTGT TACTAGCCAT TGTGAGCTTC AGTTTCTTCA TCTGCAAAAT      120
GGGCATAATA CAATCTATTC TTGCCACATC AAGGGATTGT TATTCCTTTA AAAAAAACC      180
AATACCAAAG AAGCCTACAA TGTGGCCTT AGCCAAAATT CTGTTGATT CAACGTTGTT      240
TTATTCACCT CTATCGGGGA GCCATGGAAA AGAAAATCAA GACATACACA CAACACAGAA      300
CATTGCAGAA GTTTTAAANA CAATGGAAAA TAAACCTATT TCTTTGGAAA GTGAAGCAA      360
CTTAACTCA GATAAAGNAA ATATAACCAC CTCAAATCTC GAG                                     403

```

(2) INFORMATION FOR SEQ ID NO:708:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:708:

```

GAATTCGGCC TTCATGGCCT AGGTGGGGGG CTTCTGCAC AAAAAGGGAG TAAGTCCAGG      60
CTATACCTGT GCTCAAATAA CAGCGCCATT GATGTCTTGG CANACTTGGG ANGACATTCC      120
TTCTGCAAGA CTTGNTGAGC ATATTTCTGA GCTCTCTTTA CATGGTCAGG GTCCACATAA      180
TGCATTTTTT TCATGTCACA TTCTTCAGTA GTATAATTTA ACTTGAGGAT ATAAAGGATC      240
CACACTCCAA ACACAAGCAA TGTACATTG AGGATGTCTT TTAATNACAA GCTGGGCCTT      300

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CTCATCTTGC TTTGAGCTCG GGTGTACCAT TGCAGGGAGG GCCTCCAG

348

(2) INFORMATION FOR SEQ ID NO:709:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:709:

GAATTCGGCC TTCATGGCCT ACAGAATTGG CAGCACAAAG AAAACGCCCT CTCCTGACTT	60
GTATTGTGGC AGTCTGAACG CCCCCAGAAA ATTGTGCCAA AGAGTTTAGA AAAATAAATA	120
TACAATAAAA GTAAACACAT ACACACAAAA CAGCAACTT CAGGTAAC TA TTTGGATTG	180
CAAACAGGAT AATTAAATGT TCAAACAATC TGATAAAATA ACCATTGGA AACTGCTTGG	240
CCTTCTGTTC TTTTATTTGA TTGACTACAA TGCGGTATTG GTCTCTTGCT GCACTTCAAA	300
AGCAACCAAC AAAACCCTCG AG	322

(2) INFORMATION FOR SEQ ID NO:710:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:710:

GAATTCGGCC TTCATGGCCT AGCCATAGAA ACTGCCTCTT TTCATGTGGG ATGAAGACAT	60
CTGTGCCAAG AGTGGCATGA AGACATTGC AAGTTCTTGT ATCCTGAAGA GAGTAAAGTT	120
CAGTTTGGAT GGCAGCAAGA TGAAATCAGC TATTACACCT GCTGTACACA CACTTCCTCA	180
TCCTGTCAGC CATTGTGAAA TTGACAAACAT GCGGTAAT TAAGTGTGA AGTCCCTAAC	240
CCNTAACCC TCTAAAAGGT GGATTCCTCT AGTTGGTTG TAATTGTTCT TTGAAGGCTG	300
TTTATGACTA GAATTTTATA TTTGTTATCT TTGTTAAGGA AAATAGAGGA ANNCAAAGGG	360
ACTCGAG	367

(2) INFORMATION FOR SEQ ID NO:711:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:711:

GAATTCGGCC TTCATGGCCT AGACTTCCAC AGAGACCTAT CTGGAACCTC TGGTTCCTTA	60
CCTCTGCTTC TGTCAGAGCA GCTCTGGGTT TTGGTTTGT ACTATTGTAC ATATTAGGCT	120
TCTATACAAG AAGAACTGGT CCCATTGGTT TAAAAATAAG TTGAAAAATC CTAGAAACAG	180
TGAGAGTCAG AAAAAAAAAC TGTTTTATA TACATATTCT CTCCCCCACC CCCTTCTCT	240
CCAGTTGAAA TATGTTGCAG AGCTCTAAAT TTAGGGATGC TTTTGGCGTA TTTCTTATAC	300
ACTCCAGAGG CACTCGAG	318

(2) INFORMATION FOR SEQ ID NO:712:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:712:

```

GAATTCGGCC AAAGANGCCT AGGTTTGAAA ACTCTGCTTC CTTTGTGAAT TTGGTGTTAG      60
GAGTTCTTAT TGTTATTCTG CAGCCTTTAC TATTGTCCTT TATTTACTGA ACACAGTGAA      120
TACCAAGCAC TGTTTATTAG AGGTTAGGAG TAGGGGCAGG TGATTAAAAA AACAAAAAAG      180
CTAATAATCT CCTCAAGCAA TTTCTGGCCT AATAGAATTA TAGTAGACAG TGAAGTATCT      240
AAACCCAGGG AATCAGATTG AGGCACCATG TCCATCGCCT TGAGAATTAA TAGGCTGCAT      300
TTCTGGGTTC TCCNTTTTTT TTTTTTTTTT GCCCAACTGA GTCTTTCTGT GGACTTACAT      360
GGAATTCTT ATTCTCTTAA ATCATTAAAGT TACTTGACAA TATTCTTGA TTTGGAGAAA      420
CTGGATGTAG GGCCGTATGA AAAAATCATT CGAATCAGA ATCTCGAG      468

```

(2) INFORMATION FOR SEQ ID NO:713:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:713:

```

GAATTCGGCC AAAGAGGCCT ATTTTATTGC CAAACTTCTG AATAAACTGA AACAGCAGCA      60
ACAGCAGCAA CAACAGCATT CTGAAAATAA GAGAGAAAAC TCTGAAGATC CCGAGGAATC      120
TTGGGAAAAT TTAGTTTCGG ATGAGGATTT TTCTGCACTG TCCTTGGAAT CAGCAAATGT      180
GGAAGATTG GAACCTGTGA GAAACCTCTT TAGAAAGTTG CAAAGCACAC CTAAGTATCA      240
GAAACTTCTA AAGGAAAGAC AACAGCTACC TGTATTTAAA CATCGGGTCC TCTCGAG      297

```

(2) INFORMATION FOR SEQ ID NO:714:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:714:

```

GAATTCGGCC AAAGAGGCCT AGAAATACTG GGAAAAAGGA CACTTACTGT GTGACTTAAA      60
TTGATTAAAG GGTATTTCAG TTCAACTCTC TTGAATCTAA TTAGTATTTT TGTGTCATTT      120
ATTATTATAG GGCACACATT TTTTACATTT GATTTAACCT GACCAAAATT AAATGAGCAA      180
ATGTTTATTG CTATGTCCAT TGTTTTCCTT TCTCTGTCAC TGTTAAAAAG AGGAGCCATG      240
GCTTCTGCTT CTTCTGTGTA TTCTCCATTA GACCTTCTTC ATCCACCCCTC TTCCCATCC      300
CTTTCAGCTC TGAAGGGTCC TCTCGAG      327

```

(2) INFORMATION FOR SEQ ID NO:715:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 324 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:715:

GAATTCGGCC AAAGAGGCCT ACTTCTCCAA GCATTCATGT ACATCCTTGG GATCTGCCTC	60
ATCATGGAGC TCATTGGTGG CGTGGTGGCC TTGACCTTCC GGAACCAGAC CATTGACTTC	120
CTGAACGACA ACATTCGAAG AGGAATTGAG AACTACTATG ATGATCTGGA CTTCAAAAAC	180
ATCATGGACT TTGTTTCAGAA AAAGTTCAAG TGCTGTGGCG GGGAGGACTA CCGAGATTGG	240
AGCAAGAATC AGTACCACGA CTGCAGTGCC CCTGGACCCC TGGCCTGTGG GGTGCCCTAC	300
ACCTGCTGCA TCAGGAATCT CGAG	324

(2) INFORMATION FOR SEQ ID NO:716:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 495 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:716:

GAATTCGGCC AAAGAGGCCT AAAGGGATTT AAAACCTCTG TAGAGGCTGG GCGCGGTGGC	60
TCACACCTGT AATCCCAGCA CTTTGGGAGG CCAGGGCGGG CAGATCACCT GAGGTCGGGA	120
GTTTCGAGACC AGCCTGACCA ACGTGGAGAA ACCATGTNTC TCTACTAAAA ATACAAAATT	180
AGCCAGGCGT GGTGGCACAT GCCTGTAATC CCAGCTACTC GGGAGGCTGA GGCAGGAGAA	240
TCACTTGAAC CTGGGANGTG GAGGTTTGGG TGAGCTGAGA TCGTGCCATT GCACTCCAGC	300
CTGGGCAACA AGAGTGANAC TCCATCTCNA AAAAAAAAAA AGAAGAGTTT ACACGAAGTC	360
ACCTCTATTT CAGAAGATAA TCTAGACTCT ATTCCCTCAG AGTCTTTTTT CTCCCCAAG	420
ATAACACTGT CCTAGGTATT TCCTCATACC CCCAGGCCCA CAGTTCATGG CCCACATGTC	480
CCCTGTAAGC TCGAG	495

(2) INFORMATION FOR SEQ ID NO:717:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 414 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:717:

GAATTCGGCC AAAGAGGCCT ATTTTCTAGA TCATCAGCTA TTGTTAGTGT TTGTGTATGT	60
TATGTGTGGC TCAAGACAAC TTTGCTTCTT TTAATATAGG CAGGGAAGTC AAAAGATTGG	120
ATATCCCTGC TTTATACCAA GAAAGACAAC ACCCCACATT TGCAGTGCCT GAAAACACTA	180
CCAGCCATCT GAAAAACATG TGAATTCTAA CTTCTGTTCT TTTTGTAGC AGTGGAAATCC	240
CACGGTGATA TCTGAGGGAT GTGGTTACCT TTTGGAGGAG GTTGACGGTT TCTAAGGATG	300
ATTCTTTCTG AGTGAAATAT TGTCAGTGTC ATTGACCTTT TCATTATTTC AACTATTATT	360
ATTCCAGGTT ATCAATACTC TGGCTGACCA TCATCATCGG GGGACTGACT CGAG	414

(2) INFORMATION FOR SEQ ID NO:718:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:718:

```

GAATTCGGCC AAAGAGGCCT AGGATGAGAA TGACTGTGCC TCATTGCATC TTCCTGGCTG      60
CCTGATGGGC AGAAAACCTG GGTCTCCTCC CCATTTTAGG AATGGGAAGG CTGAGTCTCT      120
GCGATGAGCC TTCCTCAGGG ATGGTGAGGG GCCGGCCCGG CACTAAGCCC CATTCTCTGA      180
GTTAGGACCT GTAGGAGGGT GGCAGGGGCA AGCGGGCAG GTGGGTGGCC CAGGCAACTT      240
TGCAAACATC TTCCCTTTT CCGGGAGAAG CAAACGCGCT GTGTGGAAG GCACATTCGG      300
AAGATGGAGT TTCACATCAG CAAGGTCAGC TGGCTCGTGG ATGTTGCAGG GTGGGGTGGG      360
GCAGTGCCAG CTGCTGGGC CTCAGCTAGG TTAGCAGGAG CTGGGGAGGT GCCCTCGAAG      420
CAGGGATCAG GGCTCTGGG TATGGTGCAG GCTCGAG      457

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(2) INFORMATION FOR SEQ ID NO:719:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 509 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:719:

```

GAATTCGGCC AAAGAGGCCT AACTTGCAAG AGCTGTTTTA TGCAGAGATA AATTGGAAGA      60
ATGGTCAGCC TCTTAAGCTA GCTTATTCGA AGAGGTACTG GAAAAAATAT GGCAAAGACT      120
TCAACGACAT ATGCCAAAAC TTTTCCCTT GGAAATCATT GACTAGCATC ACTGAATGTT      180
ATTCTTGTG GAGAACTACT GACAGATATG TGCAACAGAA ATGGTTAAAA GCAGCAGAAA      240
CTGAGAGTAA GCTGAAACAA GTATATATCC CAATTTACAG GAAACCAAAT CCCAACCAAA      300
TATCTACCAG CAATGGCAAG CCTGGTGCTA TGAGTGAAAC CATGAGGTTG ACATTCCTGC      360
CTCAGAATCC CCTTGTAAGT CAAGCCTGGG AGGCTGCTG TGCTACACAG TCTAACCAGT      420
AGTATTCTTG GGGCCACCT AATATGCAGT GCAATTTGTT GGCTTTATTG AGAAAAATAT      480
GGAGACCTGA AAATGCCAC CCGCTCGAG      509

```

(2) INFORMATION FOR SEQ ID NO:720:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:720:

```

GAATTCGGCC AAAGAGGCCT AATGTGTAGT CATCTGGGAT ATGCTAGCAT CACAGTTACC      60
TGGAGTCATC TTGAATATGG AGATGACAGG GACTGATTTT GCAGATTCGT TGAGTTGGTG      120
GGATATGTAA ATATGTTTTT CACCAACAAA TCAGATATTT CTGTTGGGCA GCCAAGTGTA      180
ATAACCATTG CTGTAAATGA TCTCTGTCCT CTCCAAATCA CATGATTAAT TAAATTATGT      240

```

GAATGCCTAG TTGACTGCTA GGAATGCTT GTACTTTGGA AATATTTTAA CCAAGGACAC 300
TCTAGAAATT CTCTTGCTCT CCCACCTCAA CAGTGCAACT CGAG 344

(2) INFORMATION FOR SEQ ID NO:721:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:721:

CGGTAGAGAG GCAGAAGCAA GAGAGCTACG GTTCAGGTTG GGCACCACTG ATGCCACTGG 60
TTCTCTGCAA GCGGATTCCA TGACAGAAAC CGTAGCAGAA AACATCGTTA CCAGTATCCT 120
GAAGCAGTTC ACTCAGTCTC CAGAGACAGA AGGCATCTGC TGATTCTTTT CCAGACACAA 180
AAGTCACTTA CGTGGACAGG AAAGAGCTTC CTGGGAAAG GAAAACAAAG ACTGAAATAG 240
TTGTGGAGTC TAACTGACT GAGGATGTTG ATGTTTCCGA TGAAGCTGGC CTGGACTACC 300
TTTTAAGCAA GGATAATAAG GAAGTTGGAC TCGAG 335

(2) INFORMATION FOR SEQ ID NO:722:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:722:

GGAACACACC TGTGGTGCTA GTGTTGGGAT CGGGGGCGTT TAACGCTGGT GGGCAGCAAT 60
AAGGGGCAGA TGTGCCAGA TGCCTGCATC CCCAGGGTGC CGAGGGCAGC AGGAAAAAGT 120
GGGGACCTCG GTGCATTTGC CCCACCCCTC CCCTCCCTGG GCTAAAGCAC AATGTTCTCC 180
CCGCAGATTA ATGACCCTGC ACCCTCCAGG CCCCTACTCA CATCCTCCCC CAACCGGCTT 240
CGGGTCTCTC CACCACACTC TGGTTTCTA TGCTGTTTGT GTGCAAGTAC AACTGTCGTA 300
GTCATGGCTT TGGGATGGGT TCTGTTTATT AAAATCCTAT TACTCGAG 348

(2) INFORMATION FOR SEQ ID NO:723:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:723:

GAATTCGGCC TTCATGGCCT AGTAGTTGTT CCATGCTGTT GTTTTTTGTT TTATCTTTCA 60
TTGCCTTTCC CTCTGCAGTC AACATTATGA CCTGGGGACT CCAGCATCCT TCAAGCAAGC 120
CAATTCGAA GAAGGTGAAA AGAAGCCAGG ATGATTGGCA CCTCTCCTC CTCCTCCTCT 180
TCTTCCTCTT CCCTTGCCCA GCCCCTCCT GTGCGTGTGT TTCAGACAAC ACAGGAGCCA 240
GCACAGGAGT GGAAAATCCT GTAGCGCAAC TCGAG 275

(2) INFORMATION FOR SEQ ID NO:724:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:724:

```

GAATTGGCAT CTTTTCATTG CTTTGGCCCT TTGAGAGTTG TTTAGTTTTT TAAAAGTCAG      60
ATAATTTTGG ATTATATTCT AGACCTTTTG AATATTATGT TATAGGACTC TGGAGTCTGT      120
TAAAATCCTT AGGAAGACAT TAATTTTGTG AATTTTAACA GACAGAAGTC CTTGTTATAT      180
TGATCCATTG GTTTGTTCTA CACTTGTGCA CCTTGGAGAT GAGTCTGACT TCATATGCAG      240
AATTTAGTAT CCCTTCTTG AGCTCCCTCC CCTCTGTGAT CCTCCCCATT CTTCCCTTCT      300
CCCAAGAACT TCTCGAG                                     317

```

(2) INFORMATION FOR SEQ ID NO:725:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:725:

```

GAATTCGGCC TTCATGGCCT AGGGTCAGTG AATCTGCATT ATTACATAAA AAATAAGGCA      60
GAGGAAGCAA TCAAATATGC GTTTGTCTCT GGTGAGCCTC AGCAGGGATG ACTTTGAGTT      120
CTGTCTGTCC TTTGTCCACA AGGAATTTC TTTGTGAAAA TTGTGAAGGA GGTATGTCGC      180
TTCTTAATC TGTACCTATC TTATTTAGGA ATAAATGGG AGGCAGGTCT GTCTGACATA      240
GTCCCAGTT TGACTTTTCC CCTGACTTAG TGATTTTGAG GTCTCGAG                                     288

```

(2) INFORMATION FOR SEQ ID NO:726:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:726:

```

GAATTCGGCC TTCATGGCCT ACACACTAAT AGGATTGGAT TTATGTATGT CCAGCTTGGG      60
AATTATTACA GGAATTAAAA ACAACTTTTT AGAGTGCTTT CCTGAGCTCT CTTTCTATTT      120
GTTCCCTTCT CTAATTTTTG CTTCCCTGTG GCTGCTGTTT CTATCCTCCA GCCAGAGAGC      180
TAGTGTTTAT TTTCTCCATT GTGTTACACA CTTGTGCAGC TGCAACCACC ATATCCAGGG      240
GCTCGAG                                     247

```

(2) INFORMATION FOR SEQ ID NO:727:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:727:

GAATTCGGCC TTCATGGCCT AGAATTCTAG ACCTGCCCCG GTCTTCCTCC TCGTCCTGCC	60
GCAGGGCCAG AACCCCTGAC GGTATTCAGC TGC GCGTAAG TCTGGCCGGT GCCATCTGTC	120
TCCGCAATGC CCCCCAAGAA ACAGGCTCAG GCCGGGGGCA GCAAAAAGGC GGAGCAAAAA	180
AAGAAGGAGA AGATTATCGA AGACAAAAC TTCGGTTTGA AGAATAAGAA AGGAGCAAAG	240
CAACAGTTAT CTCGAG	256

(2) INFORMATION FOR SEQ ID NO:728:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:728:

GAATTCGGCC TTCATGGCCT AAGTGCTGC GCTCTAATAA CCATGTTTAT CTCATGCCTT	60
TGGGCCTTTC CATATGTGTT TCCTCTGCTG ACACCAACCT CCTCCTCCTC CTCCTCCTCC	120
TCTGCTTGGC TGGCTTCTCT CAGTCTCAGT TGCGATACCT TCTCTTCTAG GAAAGCTCCC	180
CTGACCACTC TTTCTTTGGG CTTCTATAAC CCCCCTGTCT GCCCCCATCA GGGCACCTCC	240
CAAATTTTCAG TGTTCCTTT CCTCCTCCCC AATCTCGAG	279

(2) INFORMATION FOR SEQ ID NO:729:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 231 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:729:

GAATTCGGCC TTCATGGCCT AGAGAAACCT ATTTTTCAT TTAACCTGTT CTTTAAATCC	60
AGTATGTTCC AGAACATACA AAAATGTTA AATGTTCCAT TTGTAAGAGG ATATCATGTA	120
TTTATATCA ATTTAAATGC AGTTATCCTA ATCATTTTTC TTTCATTTT ACCCTTTATT	180
AACCTTCAT TTGTTTACAA AACAAATCCA CTCTATAAAC GCAATCTCGA G	231

(2) INFORMATION FOR SEQ ID NO:730:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:730:

```

GAATTCGGCC TTCATGGCCT ACACACATAA TTAGTTATTT TACCATTCTT TCATAGTTTT    60
AAGAGCAAGT TTTCACAAGG GCGATTTGAA TTAGAGGGTA GAATAATATT TTA AAAATCG    120
TTTTCTATTA TTCAAATATA GAATGTTATT AAATTTTTTG GTATCGCTGG TTAAGTGCCT    180
AGA ACTTGAT CATCTTCTAT TTCTTTTCC TTTTGCTAT GAGAAAAATA ATGCTCAGAG    240
AAGTATACTC GAG                                                    253

```

(2) INFORMATION FOR SEQ ID NO:731:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 239 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:731:

```

GAATTCGGCC TTCATGGCCT AAGAGACTTA ATTATTAACA AAGTATTAGA AGCTAGAAGT    60
AGGTAAATA AGTGATTATT TTAATAAAAA TTATCCTTAC TTTACAAAAT CCATATTAAAC    120
CTCACTTGAA ATTTTATGAG CTTTCCTAT AAGTTTAAAG AGATAGAAAT CAGTGAAAGA    180
CCTCAGTAAT TCCTGCAATG ATCTTAATAG AAAATATTTT ATACCTTCTC TCCCTCGAG    239

```

(2) INFORMATION FOR SEQ ID NO:732:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 262 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:732:

```

GAATTCGGCC TTCATGGCCT AAATAAATAT CTCATTTTAA TTGTTACTTT GTTGGACTTG    60
ATTACTGCAA ACCTATCACT AATTCTTTCT GAGTTCACCG AAAGAAGTGC AAAACCCCTTC    120
AATATATTAC CATCATGTGC TTCTTCTGTC CCACTCTTTT CCTTAGAGAC ATTTTGTTTT    180
TGTTGTTTTT AATTGGTATT GTATTGTTTT TCAAATCTTT GTCCCCCAG GCTCGACCTA    240
TAGTGAGTCG TATTAATTC AG                                                    262

```

(2) INFORMATION FOR SEQ ID NO:733:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 253 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:733:

```

GAATTCGGCC TTCATGGCCT ACACACATAA TTAGTTATTT TACCATTCTT TCATAGTTTT    60
AAGAGCAAGT TTTCACAAGG GCGATTTGAA TTAGAGGGTA GAATAATATT TTA AAAATCG    120
TTTTCTATTA TTCAAATATA GAATGTTATT AAATTTTTTG GTATCGCTGG TTAAGTGCCT    180

```

AGAACTTGAT CATCTTCTAT TTCTTTTCC TTTTGCTAT GAGAAAAATA ATGCTCAGAG 240
AAGTATACTC GAG 253

(2) INFORMATION FOR SEQ ID NO:734:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:734:

GAATTCGGCC TTCATGGCCT AGTATCACAG GCTTTCTTCA AATAACCAGT TCCTCTAAGA 60
CATTGAAAAT ATAATTCGGT GTTTAAAATA AATTCATACC CGTTTGTGT GCTGTGCATA 120
AATAGCAAGT ATATGTGTAC CTTACCAAAC TTATGGTCCC CAGTCCCCAA ATTCCAAAAT 180
TATGCAGGAG GGAAGGTTAG CCATTGCAGT AAACAATTTC TCCCTATTGA CCCATGCTCT 240
CCAGCTGATT ATGATGTGGG CAGTACTCAT CCAAGGCTAT ACAGACCAGC CGGGTCTCGA 300
G 301

(2) INFORMATION FOR SEQ ID NO:735:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:735:

GAATTCGGCC TTCATGGCCT AGAGACACAA TGGGCTCCAA GAATTGAAA TCCCTCATCT 60
GTGAAGGCAG AAATACTAGG AGAATGGGTA ATGTTTATAC CATCAATGAA GAAACTCTTG 120
TAACCTAGGG TTTTCAAATT ACAGAAGAGG AAGAACAATG GAGGCTGATC TCCAGTTTGT 180
GACAGTCTAG ATAGGTGGCC TCAGTCTTGC TCTTATAAAT TCTAATTCCC AGAAGCTCGA 240
G 241

(2) INFORMATION FOR SEQ ID NO:736:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:736:

GAATTCGGCC TTCATGGCCT AGTGTCTTCTA TCTTCCAATT TTCTTCTAAG TTTGTACATT 60
TTGCCCTTAG CTTTTTGTCT CTTAGCTTGT CTTTTTCTT CTGCTTCCTA CTTTTCAGGT 120
TTAAATTTAT CTTTTTCTT CTAAAAGTAT GTTTTATCT TCTAATTCC CTATCTTCTC 180
TATTCTTTTTC TCGCCTTCC CGTACTTCTG TCTTCCAGT TTACACTTCA AACTTCTATC 240
TTCTCCAAAT T 251

(2) INFORMATION FOR SEQ ID NO:737:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 313 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:737:

```
GAATTCGGCC TTCATGGCCT ACAGGGTTGC TGGGATGATC AGTGATTTTG CTAATATCAA    60
AAGTGCCCGAG CACAGTGCTT GGGTTGTTGG AGGCATTGAA CACACGGCAT TGTTATTATT    120
TATATGCCTT GTAAC TGGA GAGCCTGTGG GCAAACAGTG GATGCTAAAA TTCAGTTTGT    180
GGAAGAACCA GGTGCACAAA CTCCTGTTCT ACCTGTGGTT GAGTCTACAC TCCCCACCA    240
CACCCAGCT GCTCTGATCT ACCTCCTGTT CCTTGAGCAG GCCATTTTCT TTCTTGCTTC    300
AGGGCAACTC GAG                                     313
```

(2) INFORMATION FOR SEQ ID NO:738:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 302 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:738:

```
GAATTCGGCC TTCATGGCCT AGTGTCTGTG TTCCATCTGG TTTTCTTCTT TCAAATTCGC    60
ACTGACTGTT CACAAGCCGC CTGGTCAGCT TTCTCCAGA TTCCTTCACG ATGCGGTCAA    120
GCTGCTCCTG CTCTCTCTCT AAATTATTGC TTTTAACTT ATCTCAAGC ATATCTTTGT    180
CTTTCTTTTT ATTTTCTTTG CTGGGACTCT TGAAGGCGTG TGCTTCGGCA TCTCCAGAGT    240
CCTCTCTCTC TCTCTGCCAG CAGCCTCCGT CCTCCCCACT CTGTGAGGTG TCTGTTCTCG    300
AG                                     302
```

(2) INFORMATION FOR SEQ ID NO:739:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 196 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:739:

```
GAATTCGGCC TTCATGGCCT AGGACTGTAC CAGCGCTATA CTGTAGTTAT TTTTTTAAAT    60
GAACTTCACA TATTTTGTGTA TTCTTTCAAA TTGTTTGCTA TATATAAAAG AAGCTCACTG    120
CAAAATGCTT GAAGGAAAAA AGGAAACAAA AGAAATTCAG AACTTCCCAG AAATGTACAG    180
CTTTTCGGCC TTCATG                                     196
```

(2) INFORMATION FOR SEQ ID NO:740:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 309 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:740:

ATGGCCTATG	CCTCCCCACT	CCACCCACCT	CTGCCTTCCT	TACTGCTGTA	TCTGCTGCTT	60
GAACTGGCAG	GAGTCACACA	TGTGTTCCAT	GTGCAACAAA	CGGAGATGTC	ACAGACTGTA	120
TCAACTGGGG	AGTCAATCAT	CTTGAGTTGC	AGCGTACCCG	ATACCTTACC	AAATGGACCT	180
GTCTTGTGGT	TCAAGGGAAC	AGGGCCAAAC	CGGAAATTAA	TCTACAATT	CAAACAAGGT	240
AACTTTCCCA	GAGTAAAAGA	GATTGGAGAC	ACCACCAAGC	CTGGCAACAC	AGACTTTTCC	300
ACACTCGAG						309

(2) INFORMATION FOR SEQ ID NO:741:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:741:

GAATTCGGCC	TTCATGGCCT	ACTGAAGGTA	GGTGAGTTCA	TCCTCTTCAT	AGTAATGCTG	60
TTTTACCAAG	ACTTTATAGC	AGATGGACCC	AGAAAGAATT	TTCTGCTATT	GTGTCACTA	120
CAACAGGATA	GGGACATCAG	ACAGCCCCAG	AAACCCCTTC	CAGATCTGAT	ATGGGACTAT	180
TAATTTTAT	GCTGTTAATT	GGTATTCATT	CACAAATGCAG	TTGAAGGGGG	AAGGCTCCAC	240
TGCATTCTTT	GGCTAAGGCC	TGAATGCTTG	CTCATCTGTA	AGATCTATAC	TCGAG	295

(2) INFORMATION FOR SEQ ID NO:742:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:742:

GAATTCGGCC	TTCATGGCCT	ATAAAAAGTG	GGCCAGTTTA	AAGAAAAATT	TTATCTAAGC	60
AGTAGTACAG	CTGGCTTTCC	AATATGGCAA	AATAAGTCTT	TCTGTAGGAG	ATATCACCAT	120
TTTGGCAGGA	TTGAAAAGCC	TCTTGTTTTG	TGCCATATAA	TCAAACATA	TCTGTGATTT	180
GAAAAATGAC	AAAGGGTATA	ATAATTCCTA	GAATTGGTTT	TAAAATGAAG	GAAAATAGTA	240
TCCTAGTTCA	AAAGTTATGG	CTCATTGTAA	GTGCTGGTCT	GGTATAACCA	TACAGATTGT	300
TTAAAATCTT	TAAATAAATA	CTTGGCCCAA	TCCCTTTTGT	TCCCCCTTTC	TCGCTGCCCT	360
GTAAACTCGA	G					371

(2) INFORMATION FOR SEQ ID NO:743:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:743:

GAAATGACTC TAGCCTGTGG AAAGAGAATC ATAATTCTAC GGACCTTTTA AATCCGCCAG	60
GAACCCTGAA TATCTATCTT TTTTGCTTGA CATGTCTCAT GACTTTTGCA GCCTTGGTGG	120
GCAGCATTTA TTCACTAATT TCCCTGCTGA AAATGCAGAA CAGAACTGTT GTGTCCATGC	180
TTGTGGCTTC CTGGTCTGTG GATGATCTCA TGAGCGTCCT GTCGGTGACC ATCTTCATGT	240
TTTTCAGTG GCCAAACGAG GTCCCCGGTT ACTTCCAATT TCTGTGCAAC ACCTCTCGAG	300

(2) INFORMATION FOR SEQ ID NO:744:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:744:

GAATTCGGCC TTCATGGCCT ACCCTAAGAG AAACCTCCTG GTGATAATCA CAGGGTCCAA	60
AAGTAAAGGA AACCTGGCAG TCTCTGGTGT CCATCATGTG CTTATTCCAC TTGGTAAAT	120
AATTTGAGAT GCCTTCTAGT AAGGAATGGA CCTTAGTGGT GATGGTTAGT TGCGTTATGA	180
TGACAGCCAC TGGGTTGGAG TACTTAGAAA GCTCCGAGT ACTAGACAGC TCCACAACCT	240
CTTCAAAAGT ATCCATGGGA TACAAAGGCT TAGGATCATT GAGACACTGA ATCAAGGGCT	300
CAATCTGGTA AAAATCTGCT TCTTCCGAA GCAGATCAAA TTCCTTAAAA TCCNACGGTA	360
AGGTCAATTC TGAAGTCTT AAGAAGTGA GGACATATCG GAAAAGAGGT CCATCTCGAT	420
CAATAAAGTA ATTGCCTTGA GGGTCTCGAG	450

(2) INFORMATION FOR SEQ ID NO:745:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:745:

GAATTCGGCC TTCATGGCCT ACTTATTAAC CCCAATCAAT AGAGTTGAGA GACTATGGCT	60
TTAAAAAATT AATGCAAACC TGGCTTTAGC TGTAATAACA CCCACCGTAA GCACTTGGAC	120
TTAGTTATTA TAGACAAATG TAAAGAAAAT TTAATGAAAA ATAACACCCCT CTCTCTTAA	180
AAAAAGAAGT CTCAGGCAAT AGATGCCTGG TACTATGAGG AAGAATGTTA GAAATAGAAG	240
TGAAATCCCA GAGAAGCCCN AAACCCCCCA ATCTCGAG	278

(2) INFORMATION FOR SEQ ID NO:746:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:746:

```

GCAATATCAA ATAGCTAACT TCACCCCCAA CCACAGTCCT TGCTGTTGGC ATTTACTCAA      60
CTAGTCTTTA ATTCTGTGTT GACAAACTTT ATAAGGTGCT ACAAGACAGA TGATTTTTC      120
CCATCTACCA TAATGTGGAA CAGATATTTT GTCTTCTATC TCCTGCTTTT GTCAGCGTTT      180
ACGAGTCAAA CAGTATCCGG ACAAGAAAG AAAGGACCAA AATCAAATTT GCTTGCAAGG      240
AAAAGTGATG TCCAGGGGCA CCTCGAG                                         267

```

(2) INFORMATION FOR SEQ ID NO:747:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:747:

```

GTTCTACCTG GAATATGGTC CTTCTACCTG GAATATTTTT TCCTCAGGCC TTCTCTGGCT      60
TCTTCTTCCT TTATTCCTTG GATCTCAGCT TAATCATCTC TTGGCAAGT ATCCATGATC      120
CAAACGGGT TAGTGCCGCT CCCAAGACCC CCTTTATTAA CCCTGTACTG GCACTTAA      180
CATACTCTAT TGTATTTGCC AGCTCCTTGG CCTGTCTGCA AGTTCCTTCA GGCATGCTGC      240
CATCATTCTC ATTATCACT GTATCTCCTG TGCCAGCAG TCTCGAG                     287

```

(2) INFORMATION FOR SEQ ID NO:748:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:748:

```

GAATTCGGCC TTCATGGCCT ACTTTATCTG CCTCTACCT CTCTCTGGT TATTCAGGAT      60
ACCTTTGAAG GAATATTCTT TCGAAAAAGT CAGAGAAGAG AGCAGTTTTA GTGACATTCC      120
AGATGTCAAA AACGATTTTG CGTTCCTTCT TCACATGGTA GACCAGTATG ACCAGCTATA      180
TTCCAAGCGT TTTGGTGTGT TCTTGTGAGA AGTTAGTGAA AATAAACTTA GGGAAATTAG      240
TTGAACCAT GAGTGGACAC AAGAAAAACT CGAG                                         274

```

(2) INFORMATION FOR SEQ ID NO:749:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:749:

```

GAATTCGGCC TTCATGCCTA GGCAGTTTTT GTGCCTGCC ATTTTTTTTT TTTTTTTTNG      60
CACATCTCAT TATATATTTT TTGTGATCTT TGGAAAGTGA ACATTTTACA GAATACATTA      120

```

TAGCAACTCT GAGTAACCTT CTCCAGGTT TATTTGTATT TGCTCATTGC TTATTATTT	180
ATTACTAGCT GGGTTTTTTT AGTGGCACCT ACTCCTCTCC CCACTTAACC CTCTGATGTT	240
ATGCTTGTTA TGCCTGATCA GGGCAGTTAC GGATTGAATT GTGTCCACTC AAAATGTATA	300
TGCTCATGCA CTGACCTCCA GTGCCTCAGA ATGTGACACC TCGAG	345

(2) INFORMATION FOR SEQ ID NO:750:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:750:

GAATTCGGCC TTCATGGCCT ATAGAGTAGT GATTTTGGTC AGCGTGTGTG CTATTTTCGGT	60
GTTTCAGTTT TTCAGCTGGT GGAATAGCTA CAATAAGGCA ATCAGCTACC TAGCCACAGT	120
GCCCAAGTAC CGTATCCAAG CTACAGAGAT TGCCAAGCAG CAGGGACTGC TCAAAAAAGC	180
CAAAGAAAAA GGCAAAAACA AAAAGTCCAA AGAAGAAATT CGTGACGAGG AGGAGAACAT	240
CATAAAGAAC ATTATAAAAA GTAAATAGA TATAAGGGT GAACTCGAG	289

(2) INFORMATION FOR SEQ ID NO:751:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:751:

GAATTCGGCC TTCATGGCCT ACCTAGGCAG ATGGAGCTTG TTATAATTAT GCCCATAGG	60
GATAGTACAA GGAAGGGGTA GGCTATGTGT TTTGTCAGGG GGTGAGAAT GAGTGTGAGG	120
CGTATTATAA CAAGCTCCAT CTGCCTACGA CAAACAGACC TAAATCGCT CATTGCATAC	180
TCTTCAATCA GCCACATAGC CCTCGTAGTA ACAGCCATTC TCATCCAAAC CCCCTGAAGC	240
TTCAACGGCG CAGTCATTCT CATAATCGCC CACGGGCTTA CATCCTCATT ACTATTCTGC	300
CTAGCAAAC TCAACTACGA ACGCACCTT CTCCAG	336

(2) INFORMATION FOR SEQ ID NO:752:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:752:

GAATTCGGCC TTCATGGCCT AAGGAAAGAA GAGCAACTTT GTCAGCTTGA GAAGGAACAG	60
AAAGCCGCCC TTTCCAGCTA TTTCCAAAAT AGAGTCTGCC TTAACTGTG GATGTCCGAG	120
GTTGCGCTGA TTTTCAGGGC TATTCTCAA GAGAAAGGCA GAGTCAGTCT TCCTGCCTTT	180
CTACTCTCAG GCCTCTTTCC TGAGTGCTAG AAGGAGCTCT TTTAGTTGGT TTATACCTCG	240
GGACCCTTAT TTCCCTCTCA CCTCGGCCC CAATCTCGAG	280

(2) INFORMATION FOR SEQ ID NO:753:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:753:

```

GAATTCGGCC TTCATGGCCT AAGAAGAAGT AACTGCCTT GCCTGGACTA TTTCCAATGA      60
TGCCAAACAA TAATTGTTGC CCCTTGCTT TCTTAAAAGG AGACTGCATC CATTTAACCA      120
AACTAAGAAA TTTTCAATTA GTCCTCTGCT GAAGTCATAC TATACACATC TACTTAATTA      180
AAGATACATT TATTGAAGAG AACAGGTCTC CTCCGGGTTT ATCTGCTATA GCCTTGCTTA      240
GGAAAGGAAT AATAGTCTGT CTTTAAATTA GGTGTGGCTA TTGATTGGAG CAAATGTTGT      300
CAGGTGGCCC AAGCATGAAT CAATGAGTGA CCATGAGGTC ACCCATCAGT GAGGGCACCC      360
CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:754:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:754:

```

GAATTCGGCC TTCATGGCCT AACCTATTG CCTCAGTCCT ATCTGATTCA TGAGCACATG      60
GTTATTACTG ATCGCATTGA AACATTGAT CACCTGGGTT TCTTTATTTA TCGACTGTGT      120
CATGACAAGG AAACCTACAA ACTGCAACGC AGAGAACTA TTAAAGGTAT TCAGAAACGT      180
GAAGCCAGCA ATTGTTTCGC AATTCGGCAT TTTGAAAACA AATTTGCCGT GGAAACTTTA      240
ATTTGTCTT GAACAGTCAA GAAAAACATT ATTGAGGAAA ATTAATATCA CAGCATAACC      300
CCACCTTTA CATTTTGTGC AGTGATTATT TTTTAAAGTC TTCTTTCATG TAAGTAGCAA      360
CGGGCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:755:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:755:

```

GAATTCGGCC TTCATGGCCT ATGGAAACT ACTCATTCAT TCTTCAGAAC TGTTTTCAGG      60
ACTTCAAGGA GGCCTTCCCT AACCACCCTA TTAAACATTC CAGTTCTTGC ACCATCCCCA      120
CCCCTACTCT GCCCTCACTT TTTCTCCAT GGCCTGGGC ACCAGCTGGC TAACTCTGTC      180
TTCAAAAAGT ACTTTTCTT GGGGAGGTT TTTCTTTGT TTTGTTTTT TTTCTTTCAG      240
TCCTGTATCT TCAGACTTA GAAGAGTTCA TGGCACACAT CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:756:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:756:

```

GCGCCGAGTG GGACAGCGCT GGTGCGGAGA CTGCTTCCGG ACTCCAGGTA CCGCGCTTGG      60
CGGCAGCTGG CCCAGACTT CTGTCTTTTC AGCTGCAGTG AAGGCTCGGG GCTGCAGAAT      120
TGCAACCTTG CCAATGGACC TGATCGGTTT TGGTTATGCA GCCCTCGTGA CATTGGAAG      180
CATTTTGGGA TATAAGCGGA GAGGTGGTGT TCCGTCTTTG ATTGCTGGTC TTTTGTGTTG      240
ATGTTTGGCC GGCATGAGG CTTACCGTGT CTCCAATGAC AAACGAGATG TAAAAGTGTC      300
ACTGTTTACA GCTTCTTCC TGGCTACCAT AATGGGTGTG TTCTCGAG      348

```

(2) INFORMATION FOR SEQ ID NO:757:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:757:

```

GCGAGGTCAG GAGCTATGGG ATGGTATTAA TACATTGGCA GAGCAACCCA AGGGGGCAGC      60
ACATGCAGTG AACTGCCATG CAGAACTCCC GACGGGCCTC TTCCCATCC CAGAGTGGGG      120
AACAAACACG CGTCACAGAC AAGGAAGTGG GTGCCCCCGT CCCCTCCCCG ACCCCGAGAC      180
CCAGGAGTGC TGGGCTCCGA GCAAGTCTAT TGCATGCTT CCTGGCCAAA GCTATATGGA      240
AAGCGGGAAC AGCAGGCTGG GGAGATGATG CTGGGGGGTG GGAAGGAAA GCGTCTCGAG      300

```

(2) INFORMATION FOR SEQ ID NO:758:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 393 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:758:

```

GAATTCGGCC TTCATGGCCT AGAATATTTT ATTATAAATA TAATATATGA TTTTTTAACC      60
TGTTTTGTTG CCTCATATGC TGTCAGGTTA ATTTGTTTTT CTTCGTGCCA GAGGTGGGGA      120
GGAAGGCACT CTGTCTGCTG GGTAAATGCC TAAATTCAC CACCTTCATG GTTTGGGGGC      180
AGCATGGTCA TTGTGGATAT TGGTTTTGTG GAGTTGAGGG AACTTAGGAT ATAAGTTCAC      240
TCCCTCTATT TTTCTTGTG ATTCAGTTTT TCAAAAATCT TTTTCTTCTC CCTTCTCCC      300
CATTGTGGAA ATTACAAATC AAAGGCCTTT TTCTTTAATG TAAAGTGTAT TTATTTAAAA      360
AAAATACAAA ATAACTACA AGTCTATCTC GAG      393

```

(2) INFORMATION FOR SEQ ID NO:759:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:759:

GAATTCGGCC	TTCATGGCCT	AAGCACATTC	AAGATGCCCA	CNAGAACCAT	CGTGTGGGC	60
TCATGTTTAT	TACTTAAGCA	AGAGAGCTCT	TACCCAAATT	CCTTTGTTTC	CCCACTGTCA	120
GAAACAACAT	AGTCTGGAAC	TGGAGGCCTA	GAACCTCTGGT	TGTATTTCCT	GTAGTGGGTA	180
AAAGTCNACA	AAGATAATGA	ATGAGGCAGT	GTCTCCTCAT	GCCTTCATAT	TTTCTTTTGT	240
TATTTTAATT	TTTTTTTATT	TTTTATTTT	GTGGGTGATA	GTAGGTATAC	GTATTTGTGG	300
GGTACGACTC	GAG					313

(2) INFORMATION FOR SEQ ID NO:760:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 288 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:760:

GGAAAAAAAA	GGTAAGATGG	ATGAAAAGGA	GGAGAAGGAA	TTTAATACTA	AGGAAACCAG	60
AATGGATCTT	CAAATAGGAA	CAGAGAAGGC	TGAAAAGAAT	GAAGGTAGGA	TGGATGCAGA	120
AAAGGTGGAA	AAGATGGCAG	CAATGAAAGA	AAAGCCTGCA	GAAAACACTT	TATTTCAAGG	180
CATACCCAAA	TAAAGGAGTG	GGTCAGGCTA	ATAAGCCTGA	TGAAACTAGT	AAAAC TAGTA	240
TTTCTGGCTG	TATCAGATGT	ATCTAGCAGT	AAACCAAGGT	CACTCGAG		288

(2) INFORMATION FOR SEQ ID NO:761:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 482 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:761:

GCTCGAGGCA	GGGGGAAATG	GCGGCTTCAG	GAGAGAGCGG	GACTTCAGGC	GGCGGAGGCA	60
GCACCGAGGA	AGCATTTATG	ACCTTCTACA	GTGAGGTGAA	ACAAATAGAG	AAGAGAGACT	120
CGGTTCTAAC	TTCGAAAAAT	CAGATTGAAA	GACTGACCCG	TCCTGGTTCC	TCTTACTTCA	180
ATTTGAACCC	ATTTGAGGTT	CTTCAGATAG	ATCCTGAAGT	TACAGATGAA	GAAATAAAAA	240
AGAGGTTTCG	GCAGTTATCC	ATCTTGGTGC	ATCCAGACAA	AAATCAAGAT	GATGCTGACA	300
GAGCACAAAA	GGCTTTTGAA	GCTGTGGACA	AAGCTTACAA	GTTGCTACTG	GATCAGGAGC	360
AAAAGAAGAG	GNCCCTGGAT	GTAATTCANG	CAGGAAAAGA	ATACGTGGAA	CACACTGTGA	420
AAGAGCGAAA	AAAACAATTA	AAGAAGGAAG	GNNAACCTAC	NATTGTAGAG	GNGGNACTCG	480
AG						482

(2) INFORMATION FOR SEQ ID NO:762:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 83 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:762:

GGGGGATGCC AACATTAAA GCAAGAGGCA GAAGGGCTCC TGCAGGAGAC AGGGAATCGG	60
GAAGGCAGCA GGTAAACTC GAG	83

(2) INFORMATION FOR SEQ ID NO:763:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 296 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:763:

GAATTCGGCC TTCATGGCCT AGGAATTGAA AAGAAAGGCA GAGGAGGAAA GGATTCGCCT	60
AGAAAGAGGA AGCCCGAAAG CAGGAAGAAG AAAGGAAGCG GCAGGAAGAG GAAAAGAAAA	120
AACAGGAAGG GGAAGAGAAA AGAAAGGCAG GCGAGGAGGC CAAGCGGAAG GCTGAGGAGG	180
AGCTGTTGTT GAAAGAAAAG CAAGAACAAG AAAACAAGA GAAAGCCATG ATTGAAAAGC	240
AGAAAGAAGC AGCAGAAACA AAGGCCCGGG AGGTAGCTGA ACAGATGCGT CTCGAG	296

(2) INFORMATION FOR SEQ ID NO:764:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 289 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:764:

GAAAGAAAC TAACCAGGAT TCCCTCAGTG TTATTTACTG GGATTGGCAT ACGTGTCAC	60
AGGCAGAGTA GTTGATCTCA CGCAACGGT GATCTCACAA AACTGGTAAG TTTCTTATGC	120
TCATGAGCCC TCCCTTTTTT TTTTAATTT GGTGCCTGCA ACTTTCTTAA CAATGATTCT	180
ACTTCCTGGG CTATCACATT ATAATGCTCT TGGCCTCTT TTTGCTGCTG TTTTGCTATT	240
CTTAAACTTA GGCCAAGTAC CAATGTTGGC TGTTAGAAGG GATCTCGAG	289

(2) INFORMATION FOR SEQ ID NO:765:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 306 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:765:

```

GCACCAAGAG ATGTTTATTA GGGCAATCAA AAGATGATTT ATTATTTTTT AAAAAATCAA      60
TGTGGCCTTC CCTTCCTCTT TCTTTTGATT CCCCTCTTTG AGTTTTTATG TGTCTCTTTT     120
GCCTTCCCTT CCCAGAGTGG AGGAGTTAGA CCTGCATTGT GGGATGAGAG GAGTTCTGGC      180
TATGTGTCTG CTGGCACCAA GAGGGCTGAG GGTGAGGTGT GGAAGGGACA GGGGGAGGAG      240
ATGGGCAGCA TTGTTAAGAG ATTGGTACCA CTGAGCAAAT ATGTTGAGAA TGATGATTGG      300
CTCGAG                                     306

```

(2) INFORMATION FOR SEQ ID NO:766:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 395 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:766:

```

GAAC TTGAC ACCTACACTT AAATTCTGAG TCATTAAACA GGCCTACATT TATCAACTGT      60
GGAAATATCA GCCAGTTTTT GCAAACCTCT TCTTAGGACA CTAAGTTGTT TGCAGAAATC     120
ACTAGCATTG ACTGACTCAG CAACAATGTG GTTATATTCT TTGATTAACT TAGTCCTTTT     180
TCTTGGTCAA GAGTCAGTAG ACAGGACTGA AGCTTATGCC CCTTGCCCCC CCACCACCAC     240
TCCATTACTA CCACCTTGGT TTAGCCATCC TTTTCTTGAT CTGTTCTCCC CACTTCTACT     300
GTGCTACTCT ACAGACTTGC CCTGAATGTA AGAGCAACAA TTACCTTGTA AAGTCCAAGT     360
TGGGGCAGGT CACTCCCAA CTCCACAACC TCGAG                                     395

```

(2) INFORMATION FOR SEQ ID NO:767:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 267 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:767:

```

GAATTCGGCC TTCATGGCCT GCCTCGCTGC TTTCTTTTCT CCAAGACGGG CTGAGGATTG      60
TACAGCTCTA GCGGAGTTG GGGCTCTTCG GATCGCTTAG ATTCTCCTCT TTGCTGCATT     120
TCCCCCAGC TCCTCGTTCT CCCGCTCTG CCTGCGGACC CGGAGAAGGG AGAATGGAGA     180
GGGGGCTGCC GCTCCTCTGC GCCGTGCTCG CCCTCGTCCT CGCCCCGGCC GCGCGTTTTC     240
GCAACGATAA ATGTGGCGAA TCTCGAG                                     267

```

(2) INFORMATION FOR SEQ ID NO:768:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 492 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:768:

```

GAATTCGGCC TTCATGGCCT AGCATGTCTT CTGCCTCGGC CTCCCGGTA GCTGGGATGG      60
CAGGTGTGCA CCACCACGCC TGATTTTGT ATTTTATGTA GAGATGGGGT TCCATCCATC     120

```

CATTCCTAGG	CCATGAAGGC	CGATCTTGTT	TTCCTGAAAG	TATGGCATCA	AAAATACTTG	180
TAGAAAAACC	TTGTCACAAC	TGATTTGAAT	GTTCTTATTT	TCTTTTCCTT	TGACTTTGAT	240
ATTGGCTTGT	AATGTCTCTT	TTCATCATAT	GTAATATCAG	TGGAACAGGC	AGCGCTACTC	300
AAGTCCTAAG	GATTCCTCAG	TGATCAGTGA	TCCAGGGCCG	TTCATGAACC	ACTGGGCTGG	360
ATTTGACTGT	TGAGTGTGGC	AGTTAATGCC	CCTCAAGAAA	TCAAAGGATG	TCTTATAAGT	420
GTCTTCCAAA	AAAAAAGCAA	ATGCTGAAAT	CCTATTGGCA	AAGTAAACTG	AAATTGGCTG	480
CTACCACTCG	AG					492

(2) INFORMATION FOR SEQ ID NO:769:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 327 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:769:

GAATTCGGCC	TTCATGGCCT	AACGTGAGCT	GCAGGAGCTG	GCCCCGAAGC	TGCAGGAGCT	60
GGCCGATGCG	TCAGAAAACC	TCCTTACCGA	GAACACGTGG	CTCAAGATCC	TGGTGGCGAC	120
CATGGAGAGG	AAACTGGAGG	GCAGGGATGG	AGCTGAAAGC	CTGGCGGCCC	AGAGAGAGGT	180
CCACCCCAAG	CAGCCTGAGC	CCTCAGCCAC	CCCCCAGCTC	CCTGGCAGCT	CCCCTCCACC	240
TGCCAATGTC	AGCGCCACAC	TGGTGTCTGA	AAGGAATAAG	GAGAACAGGA	CAGACTAACT	300
TTTTAAATGA	TATGAAGTAA	ACTCGAG				327

(2) INFORMATION FOR SEQ ID NO:770:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 534 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:770:

GAATTCGGCC	TTCATGGCCT	AGTGGANTCT	TGGAGATAAG	CTGAGCTTGA	TGCATTGCTA	60
CCACACACTC	CAAACCATGA	AGAAGGTACC	GTTGGGCTTT	TTGTTGTTGT	GACAAAATCG	120
TAGGAAATGG	CGCCTGTATT	TCTTAATCTG	TTCTCTAATC	TTCTCATTAA	AAAGAACTTC	180
AGTTAGAACA	AGAGGGCCCA	TGGCTTTTAC	ATCCAGTCTT	TCTGCTTCAG	CAACGATTTT	240
TTTGTGAGAT	GAATCAATAA	CACCCTCTTC	TTTCTTTTTC	TTAACAAAAT	CAAAGAGGAT	300
ATTGACCCTC	TCCTCAATTG	TTCTTTCCAA	ATCATCACTG	AGTGTCAGAA	CTTTTGCATG	360
GTCACGTGAT	TCATCCATTG	GACGCCTTTG	AGCTTCCTCA	GTTGTATCTT	CTCCCCAGTC	420
ATCATCCTCC	TCTTCTTCCA	TTGTATGTGG	AGGAGGATTA	ATTCATTG	GTGGTGGTGG	480
TGGTGGTGGT	GTCTCACTGC	TGGATACGGA	ATTGAATTCT	AGACCTGCCT	CGAG	534

(2) INFORMATION FOR SEQ ID NO:771:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 408 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:771:

GAATTCGGCC	TTCATGGCCT	ACTAGAATGT	GTGACTCTGT	GGGGACTGCA	TAGGTTTGT	60
AATTGACCTA	TAGCTAAACC	TTAATGTGTT	TGTGTGTCTA	TACATTGCTT	TCCGCATTTT	120
AAGACATCCA	GACGCTATTA	CCAACATTTT	CCTGTGCATT	AACCTCTGCA	TGTGAAAAC	180
TTTAACAGTT	ACTGAACTAT	GTAAATATGT	GAATTTTTTT	ATTTAGGTGG	ATGCATTTTT	240
TGTCTGTTTA	CTGCTCTTCT	CAGCTTTATT	CAATAAACTT	GCATTTTAAG	GGTTGTATTG	300
GCAATTTTAA	CTTAAAATGT	GCATCATGAT	GGAAGGTGCA	GACTTTTTTG	GAAGTTTCCG	360
AGAGGAGGGT	CTATAGACCA	TTTGTCTAGAA	ATCAGATCAA	CCCTCGAG		408

(2) INFORMATION FOR SEQ ID NO:772:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:772:

GAATTCGGCC	TTCATGGTGT	CGTCTCCATT	CTGATGCATC	AGCTCAAACA	GCTCTGAGTC	60
CAGGATCTGG	ATGAGGGAGC	GCATGTTGGC	AAAGTGGGTG	TCCATGGCAC	CCCCGTTGGG	120
GAAGTTCTGG	CTCATCCTCT	TCATGAGGTG	GCTGAAGCAG	CTGTAGGCCA	GCTGATCATT	180
GTCGAGGGTG	ACCAGGAGAG	GCGCCAGCAG	ATCGCACATG	CCCTGCACAT	AGCCCCACGTC	240
CAGGTGCTCC	CACACGTAGC	TGCACATGAC	GTCTCTGAGC	CTCTCGAG		288

(2) INFORMATION FOR SEQ ID NO:773:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:773:

GAATTCGGCC	TTCATGGCCT	AATCCAGTGA	CTGACAAAGC	AAAATTGCAT	GAAATTTACA	60
TTTTTTTCT	TCTTGTAATT	TAAAACTTGG	TTCTGTATA	CCTTCCTGGA	TCTTTATACT	120
TTGTATCTT	TTCTACCATT	TCTGTAAAAC	CTCAACTGCA	GGGTGCAATA	ATGGGCCTTA	180
TTTCTATAT	TTCAGCAGGA	CAGTTGCTGA	AAATGGGTTT	AAACTCCACT	GGCATTATAT	240
CCCACACAAC	TCGAG					255

(2) INFORMATION FOR SEQ ID NO:774:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:774:

GCNTTCAGGC	CNAAGGTACT	TTAATCAGTC	TAAATACTTG	AACATTTTTA	TTTCAGTGGT	60
AAAAAATAGA	CTGAGGCAGA	GTGAAGTTAT	AAATTAGAAT	CTAAAAATTT	ACCCTTCAAC	120

ATTAATATTT TTTAGTGCCT CTAATATAAA ACACAGAAAA CCTATCTCAA ATATAAAAGA 180
TGAATATAAA ATTATTAATT AAACAACNGG CGCTCGAG 218

(2) INFORMATION FOR SEQ ID NO:775:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 257 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:775:

GCCTTCATGG CCTAGAAAGG AGCATCCCTG TTTTGGAGT CAGGACCATT CAGGGGGTGA 60
ACGAGGCCCA GGCCAGGTGC CTTTGGAG CCTGGAATAT TAAAACCAGG ATGCCAAAAT 120
TGTAAGTGA TCTCAGTCTT TACATTTAAC AATTATATAC ATTTTAAACA TGAAGATTA 180
CAGTATAATT TATTTAGGCT AATCAGAAGC TAATTATAGG CTATTTAAAA ATGTTAATTT 240
GTAACACANT ACTCGAG 257

(2) INFORMATION FOR SEQ ID NO:776:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 257 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:776:

GAATTCGGCC TTCATGGCCT AAAGAAACAA AGAAACAAAC CGTATATATA TATCTTCAGA 60
GTAAAAAAT GGTGAGAACA AGAGCATTGT TTTATATATT TTTCAACTC TCTTTAACTT 120
CTGGCTTAAT AGAAGACAGC TGCATTCTCA TTATTATTTA TTTATTTTTT TTTAGATGGT 180
GTCTCGCTCT GTCACCCATG CTGGAGTGCA GTGGCGTGAC CTTAGCTCAC TGCAACCACC 240
ACCTCCCCAG GCTCGAG 257

(2) INFORMATION FOR SEQ ID NO:777:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 243 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:777:

AGCTTCATGG CCTAGTCTCA GGTTAAGTTT TTGCAGTAA TCTTCTTTC CCCTAGAAGT 60
GAGTAAACT TTCTGTATCC CTTTTCTCC CCACCTATGT TCCCTAAATT AGTGATTCTC 120
TTACAAGGAA TTATTATCGC CCCTGCAGTT TTGGAAGGAT ACCTCCAAAA TATATCTTGG 180
GGACTTCGAT TTATAGAATT TGGTTTAAGC TTAGATTCTG AGTCCCAGGG TACCTGCCTC 240
GAG 243

(2) INFORMATION FOR SEQ ID NO:778:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 309 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:778:

```
GCTGACAGGA GCATTATGAA GCAAATGGTC ATTGATACAG TTTCACTGAG GGAGTATAAC      60
ACTGGGATTT TGCAGCCTGT GGTGTTCAGT CTCCTGACCT CTATGCCAGC ACACAGACAG      120
CAAGAAGCAG TGGGGAACCT TGAGCTTCAA GCTCTACATT GGTTCGACAA AATCAATTCA      180
TCACTGTCTC ATTCATTAAT GTGCTGTCTG ATACTGACAT TTGTCAATGG CTTGTTTCTG      240
GAAGCCCCTG GTCCTCAAGG CTGGTCAGCT CTACAGTCAC AGCCCCAGGG TGAACCCAG      300
CAACTCGAG                                     309
```

(2) INFORMATION FOR SEQ ID NO:779:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 255 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:779:

```
GAATTCTAGA CCTGCCTCGA GCCTGGGTGA CAGAGTGAGA CAATGTCTCA AAATAATAAT      60
AATAATTTCA ACATGATTTT TGGTGCGGAC AAACAAACCA TATCCAAACC ATTTACTCAT      120
CCTAGTTCAG GACAGTGTCC TGGGACTGAC ACAAGGGCTC ACAGCCAGCT AGCACTGTGG      180
GCTCTCACGG GTCCCTTCTG CTGTTTTATT TTAGTAGTTA TTTATTTCCA TTCCTCACTT      240
CCACTACCACTCGAG                                     255
```

(2) INFORMATION FOR SEQ ID NO:780:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 156 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:780:

```
GAATTCTAGA CCTGCCTCGA GCTAATGGGT GCATGCTACC ACGCCCGGGT AACTTTTTTT      60
TTNCTGTTT TGTTTTGTTT TGTTTTTGAG ATGGAGTCTC ACTCTGTTGC TGAGGCTGGA      120
GTGCAATGGC ACGATCTCGG TCACTGCAA CTCGAG                                     156
```

(2) INFORMATION FOR SEQ ID NO:781:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 280 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:781:

```
GAATTCGGCC TTCATGGCCT ACTCCACACA TTCATCTCCC AAAGGACTCC TTGAATATTT    60
GCCCCAAAAC ATCAGCTCCC AGAAAACACC CCTCCCAGTC ACACACACAC CCAAATTCTC    120
CGATGTATTT TCATTTTTTT TCTCCTCTTC TCTTCTCTTT TTCCTTCCTT CCTTCTCTCT    180
TTTCTCTCTT NCCATCCCTC CCTTCCTTCC TCCCTCCCTT CCTTCCTCCC TCCCTTCCTT    240
CCTCCCTCCC TCCTTTCCTT CCTCCCCCCA CCCACTCGAG    280
```

(2) INFORMATION FOR SEQ ID NO:782:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:782:

```
GAATTCGGCC TTCATGGCCT AGCCGTGTTG TTA CTGTTGGT AATGATAAGG CCTAGATCTG    60
GTAGTGCTTT TGTTTGCTCT AAGGTCTATT AATTTAATGT AGCAATCTTT CTTTTCCTT    120
TTTCTTTTCT AACTTCACAT CAACCTAACT GGCTACCTAA ATGTTTCATTG AATGACTGTT    180
TTTGCTTTGG GATAGAATCC TCCTTTTTTA TTTTtagggT GTTAAATTGA TATAGTATTG    240
TTTAATAGCT AATAAGATAC ATTTTGGGCT AAGTTTCTTA GGCCATGAAG    290
```

(2) INFORMATION FOR SEQ ID NO:783:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:783:

```
GAATTCTAGA CCTGCCTCGA GAATGGCTTT GCAGATCTGG GATCTTGTTG TCCTTCTTTC    60
TGGGTTGGTT TTATACGTTA ACTGTCAGAG GCATATGCCA CTTTATTCAG GTTCCTCGAG    120
```

(2) INFORMATION FOR SEQ ID NO:784:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:784:

```
GAATTCGGCC TTCATGGCCT AGTTTAGGTC AGTAGCAAAT GGGCCCAGTG GGAGAGAGTA    60
TGCCCAGAGT TTGGAGAGGG TCAGGGTGTC GGGTGCTGGG ATGAGGGGCTT CATGTTTGGA    120
AGACGCAAGG TAGAGAGCAA GAGAGGAGGA AAGGTAGAAC AGGATGGAGG GCAAGACCTG    180
```

TGTAAGAAGA AGTCTTAAAC TGTAACATG GGTGTAGTGA GGGTAGTGTG GCTAAGAGGA 240
 AATGGATCCA GATGGGCTTG ATGGGTAGCA CTCGAG 276

(2) INFORMATION FOR SEQ ID NO:785:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:785:

GAATTCTAGA CTTGCTCTCA GGCAGTGAAG GACTGGCACA TTGTGTAATA AACAGAATCA 60
 AAGGCAGAAA TTAGATTACA AGCCACCTGA TGATGATAAA ATCAATCACC CTCATCAAAG 120
 GGATTGCTT TGTGTGTGTT TTTCTCTTTC ATTCTTGTGG ATGCAGACAG GATATTGAAC 180
 AGCAGCTGGG CTCCTTGATC TTGGCAACAG ACATCAACAG GCAGCGTCTC GAG 233

(2) INFORMATION FOR SEQ ID NO:786:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:786:

GAAGATTTTG CCACTCTAAG GAGAGGTGAT ATTGTATTT TTCTTTTAC TGAAACCAGA 60
 TCGTGAGACA CGCTTTTCAT TCATACTGA AACTTGATAA AATGTTTGGC TTTATATTAA 120
 TTTTCTCAAT TATAAGTGTG GGAAATGAAT TCGTTGATAA CCCTTTTCAA GTAAATGAAC 180
 TGATTAGAAC CAGTAAGCTC GAG 203

(2) INFORMATION FOR SEQ ID NO:787:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:787:

GAATTCGGCC TTCATGGCCT ACGAGATTGT CCTGGGTCAC ATAATGCCAG CTGAGCGTAA 60
 AAAGCCAGCA AGTATGGAAG AAAAAGACTC TTTACCAAAC AACAAGGAAA AAGACTGCAG 120
 TGAAAGGCGG ACAGTGAGCA GCAAGGAGAG GCCAAAAGAC GATATCAAGC TCACTGCCAA 180
 GAAGGAGGTC AGCAAGGCCC CTGAAGACAA GAAGAAGAGA CTGGAAGATG ATAAGAGAAA 240
 AAAGGAAGAC AAGAACCTCG AG 262

(2) INFORMATION FOR SEQ ID NO:788:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:788:

```
GAATTCGGCC TTCATGGCCT ACAAACAGCT GGAATGTCT CCAAGCCAGA GTGGACTACT    60
AGTAGGTATT CGTACTTCA TTGAATTCTG CAGTGCCCCC TTTGGGGTG TAGTGCAGA    120
CCGCTTTAAA AAAGGCAAAA TTGTCCTCCT CTTTCTCTT TTGTGTGGG TTTTATTCAA    180
CCTGGGCATT GGATTGTCA AACCTGCTAC CTTGAGATGT GTACCAAAGA TTCGCCAAC    240
AACTACCCC CAACTCGAG                                         259
```

(2) INFORMATION FOR SEQ ID NO:789:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 152 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:789:

```
ATACTTTAAG TTCTGGGATA CGTGTGCAGA GCATGCAGNT TTNTACATA GGTATACACG    60
TGCCATGGTG GTTTGCTGCA CCCATCAACT CCTCATCTAC ATTAGGTATT TCTCCTAATG    120
CTATTCCTCC CTTAGTCCCC CGTCCCCTCG AG                                         152
```

(2) INFORMATION FOR SEQ ID NO:790:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 241 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:790:

```
GAATTCGGCC TTCATGGCCT AGGCAAATTT GGCAGTGAAT ATGTACTGGA CTGTGATTAT    60
TTTTATTGTT TTAAAGTCA GCTTCCCTCC CTCCTTCCTC CTCCCTCCTT CCCAAGCTGA    120
ATCTGAACCA AGGAAGTCTT CCTACAGAGC CACTGACTGG TCCCCACTAA GGCAGGGGTG    180
GAGGGAGGGG CAGGATGTTT TCCTCTCCAG CCTTGTCTT GCAGCAGATC CCCAACTCGA    240
G                                         241
```

(2) INFORMATION FOR SEQ ID NO:791:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 182 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:791:

GTATTTGACT CAAAGTATTT TTTGACTGAT AGCAGTATAG CTCCCTCATT CCCTGCTCTC	60
TTTTGGTTAT CATTTGCATG AAATATAATT TTCTATCCCT TTACTTTTAC TGTGTCCATA	120
AAAGTGAAAT GAGTCTCTTA TGGGCAGGAT ATAGTTGGGC AATTTTATA CTAATTCTGC	180
CG	182

(2) INFORMATION FOR SEQ ID NO:792:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:792:

GAATTCGGCC TTCATGGCCT ACAATCTTCT TGGCCTGGCA CTAAGGACCT ACTACAGACT	60
GGCACTGAAA TATCTTCCCT ACCTTATCAT TCCTTGTGCT TCTCCACAAG CCCACTCTTC	120
CCCTTCATCA TACATGTGCC GACCTTTCCT GTCTCTTTA CTTTGAGCA CCAAATGCTT	180
TCTACTTTGT GGTCTAGGAG GAACACATGT CACTTTTGTA AGCTGCTCGA AAGCAGGGG	240
CACACCTTCA TCCTTGTTTT CCACACAACA CCAA	274

(2) INFORMATION FOR SEQ ID NO:793:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:793:

AATTCGCCTT TCANGCCTAG TGAGTAGTTA TCAACACCGG AGATGCATTA GATCAATCTC	60
TGGGGGCTTC TTCCTGGACC TGCTTCCATA TACACTTATT CATTTTGTCT TCACCGGACA	120
TGTTAACTT CCAGAGTGAC TCTAATGTGC AGACATGGTG AACATCATTC GCTTAGCTGC	180
ATGTCAGCGC TCACTCAATG TCTGTGAACA GTGAAAGCTA CTTATTCTAC TTATAAGTTC	240
ATTAAGTCTG TGTATAACTA TTGCAAAGCA GAATAGTTGT CCCAGCCACC TGTGTTTGGG	300
GAGATGAAGC TGGGAGGCCA TCAACCTTCT TTGCAATAAA TTTCTCACG TTTTGTCAAG	360
CAACCTGTTT TTTGTATTCT CAGCTAGAGG CTTTCATTCT CTATCCCCCA CTCGAG	416

(2) INFORMATION FOR SEQ ID NO:794:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:794:

GAGATGGATG TCTCTCTTG CCCAGCCAAG TGTAAGTTTCT GCGGGATTTT CTTGCTGGGA	60
AGCGTCTGGC TGGACTATGT GGGCTCCGTG CTGGCTTGCC CTGCAAATTG TGTCTGCAGC	120
AAGACTGAGA TCAATTGCCG GCGGCCGGAC GATGGGAACC TCTTCCCCCT CCTGGAAGGG	180

CAGGATTCAG GGAACAGCAA TGGGAACGCC AGTATCAACA TCACGGACAT CTCAAGGAAT	240
ATCACTTCCA TACACATAGA GAACTGGCGC AGTCTTCACA CGCTCAACGC CGTGGACATG	300
GAGCTCTACA CCGAACTTCT CGAG	324

(2) INFORMATION FOR SEQ ID NO:795:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 430 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:795:

GATTCGGCCT TCATGGCCTA GCAAAAGGGA CAAGGGAGAG AACAGGAGTA GCAAAAATAA	60
AATAAGAAAT TATGATGCTG CTTTACCAG AGACAAGCTG CTGCCACCAC TAGGCTGGAA	120
CCTACAGGCT GCACCTGTCC CTAATTAGGG TATTGGATAC TATTCACACT GTCCTGCAA	180
CAACTGCTAG CCTGTTCTAA TCAGTAACTT CTCTCTTCTT CCTGTCTTCT CACCCTCCAG	240
TTCTCTCTAA CAGGAACCCA GCTGGCAAAG ATGTCTGGGA AATGTCATTT GCATTCTCAG	300
CCCCAGCAGT GCAGAAAGGT AGGAGTGGGG CTGCGAAACA ACAGAAAAAT AAGGACCATA	360
GGTGACAAAG GAAATGCATA TACACTTCAC AGATGGCCCA TAAACATATA ATACAAAGAG	420
GTGCCTCGAG	430

(2) INFORMATION FOR SEQ ID NO:796:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 275 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:796:

GAATTCGGCC TTCATGGCCT ACTCATGAAA TGTCCCAAAG TCTTCTCATT CTGTTCTTCC	60
CTCTCCTTTT CTTTGGTCTT ACTTCTGTAG ACTCTAGCAG AGATGGCATC CTGGGATGGA	120
ATGGCAGAGA TCTGATGCAG TGGCATGCTC ATCCCAACCT CTTATCTGGT CGTCTTCTTC	180
ACAGAAGAGA GTCTCCACTG GTAGAGTCAT TTTGGGCCAT GGATTTCAAG CTATGCTTTC	240
CTTCTGGCAC CCCGAATGTA CGCAGGTCTC TCGAG	275

(2) INFORMATION FOR SEQ ID NO:797:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 157 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:797:

GCACAATATT TCAAGCTATA CCAAGCATAC AATCAACTCC AAGCTCGGAA TTTTAATTAC	60
GAGGAGGTTA GTTGTGGCAA TAAAATGAT TAAGGATACT AGTATAAGAG ATCAGGTTCC	120
TCCTTTAGTG TTGTGTATGG TTATCATTG TTTTCGAG	157

(2) INFORMATION FOR SEQ ID NO:798:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 249 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:798:

```
GAATTCGGCC TTCATGCCAA ATGACCAGCC CCTACTGAAG TCCCCAGCAC CTCCTTTTCT    60
GCATGTAGCA GCCCTGGGCC AGAAGCAAGG GATCCTGGGA GCTCAGCCTC AGTTGATCTT    120
CCAGCCTCAC CGGATCCCCC CACTCTTTCC TCAGAAGCCT CTGAGTCTCT TCCAAACATC    180
CCACACACTT CACCTGAGCC ACCTGAACAG ATTTCTGCC  CGGGGCCCTC ATGGACGGTT    240
GGGCTCGAG                                     249
```

(2) INFORMATION FOR SEQ ID NO:799:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:799:

```
GAATTCTAGA CTGCCTCCC CCCCCCCTT TCAGAATAAT TTACATAAAT ACTCCTGAGT    60
TCAATTTTTT TNAATTTTTT TTCTGCTTTT ACTTATTACC CTTAAGTGC TTGCTTACTT    120
TCTCTGATAA TTTACTTTCT TCTACTCTGT GATTTCTTTT ACAAATCAAT GAAATGGTGT    180
TGTCTTGTTT TCTCAAGTTT TTTCTGTGTA CCTTTCCTGT GGTCACTGG ACATTCCAGT    240
CCGTTTTTCA CACTCTCCCT CTACCTTCTC CCCAGTTCT TTAAAGAGAC ACATAATCTC    300
GAG                                     303
```

(2) INFORMATION FOR SEQ ID NO:800:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 405 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:800:

```
GAATTCGGC CTTCATGGCC TAGCCATGCA ATATCTTTTG CATTACAGTG CAGTCTTTGA    60
GAAGAGCCAA GTGGGTGAGA GGTATATTTT CGGTGGTAGT TGAAGAGAAG GACAAATTAG    120
CACAGGAACA AGAAGTTCAT GTAGTTGTGT TTGAAGGCAG TAGAATTGCC TTTTAAAGT    180
CATATCTGGA TGTTAAGCTC TCTCTGGGAT CCAGTTATTA GGATGAAGAA ATTCTGCCGT    240
TTAAGTGCCT GCCATTATA GAGGTTGCTT GTAAGTTGTG TGGCTAGGTA ATTGTGCTGT    300
GTGAATTTTC TACTCAAGGT TGGTTGGCA GAAAGTAGAA TTCTGAGTCT GGGTATAAAG    360
GGGTTTACTA ACATGGGAGA GATTGTGTG GAACCCAAAC TCGAG                                     405
```

(2) INFORMATION FOR SEQ ID NO:801:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 390 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:801:

```
GAATTGGCCT AATTAGCATC CTCAAGGACA CCAAAATCAC GTGTGAGGAG AAGATGGTGT    60
CAATGGCCCG AAACACGTAC GGGGAGTCCA AGGCCCGGTG AGGGAGGGTA TTGCCCTCCG    120
TGAGCACAGA GACTCTCCAT GGGAGGGGGA GCAGTATTCT CCTGGATCCT GGGGCCTGGG    180
TGGGCTGGGG GACAGCTGAG GATGGGCTTA GCAGATGAAG CTTGCCAGCA AGGCCAAAGC    240
AAACGGTTTC TCCTGTGGAT AGTGGACAGA GACCTTTGTA ACCAATGGAA TTATTCATTT    300
TTCTCTATCT TTTATTTTTT CAAAGATATT ATTTGACTCT ATCAAAAGTC TCTCCTTTTT    360
AAACCTTTTC TTATGGCGGG CTATCTCGAG    390
```

(2) INFORMATION FOR SEQ ID NO:802:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 231 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:802:

```
GAATTCGGCC TTCNTGGCCT ACTTTTGGAC CTTCTGAGTT TTAGTTTGTC CACTGAGTTT    60
TAGGTNAAAA AGAAAAA AAAAGAAAAA TTATCTGTAA CCTCAAGACT TTTTATGAGG    120
ATTATGATTT TACTGTGTTT GATAATAAAT GCCTTTTGCA TGCAGTGGTT TTCAGCATAC    180
AGTTATGAAC ATTCCTAGT GGATGAGCTT AAAAAAGGGG AAAAGCTCGA G    231
```

(2) INFORMATION FOR SEQ ID NO:803:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 492 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:803:

```
GGGACAAGGA CCTGTGCAGT GGCCTGACAT GACAGACGGA CCTGNTCAGC GTCCTATTTG    60
CAGTGATGTT CGAGTTTAGC CACCGTACTG TGGACATGCA CCCAGACAGC GGATTAAACG    120
TTAGTGTGTA CCCTATTCCC AGAAGAAAGG GTCCAAGAAA CACCCACACA GATCCCAAAT    180
GCAGCACACC TGTGTGTGGG CCTTCATCTT TTGGAGCCCA CCAATGCCTG CCATCCCTAA    240
CAACTGCCTT CGCACCACC AGGGATCAAG GCATTCTGTT TTTCCGAACG TGCTCCGACA    300
GTGGAGAAGT GCAGCATGGG AAGGTTGTAT CTAGGAACCT GAAGCAAATA AATTCCTTTT    360
AATTCATGCT TGTGATCCCT GTTATTCTGT CTCTGAACTG TGCCTTTATG CTCCAGATTA    420
GCTTTGAATC TTATTGCTAG ATTCTCCAAT CTGTTTACAA AATAAATGCA CCTAATCTTC    480
GCCTGCCTCG AG    492
```

(2) INFORMATION FOR SEQ ID NO:804:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 444 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:804:

```
GATACATAGT TCAATTCAGT TCAATCAAAA CCATTCAATA CATATTTACT GAGTCCCTTC      60
TGC GTGTCAG GCACTGTTTC AGGCACTTGT GATATATCAG TGAAAAAAAC AAAGGCCCTC      120
GCCACATGG AGCTTACATT ATAGCCAGGG GAAACAACAG TATACAATAA ACACAAATAT      180
GTGAAGTATC TAGGGTGATA GGTGATATGA AAAACATAGA GCAGGTGAAA GGGGTATGGG      240
ATTCTCGAT CTGGAAGGTA GACAGCTGCA GTATTAAATA GTATGGACAG GATAGGCTTC      300
AGTAAGAAGG CAACAATTGA GCAAAGATGA GTAGGTAAGG GTATAGGGCA TCTGCAACAG      360
CTAGTGAAAC GGCCCAAAGG TTAGAACAAG GCTGGAGTTC GGGAGAGGTC TGGGCTGGAG      420
ATGTAGNCCA TGAAGCCCGA ATTC                                         444
```

(2) INFORMATION FOR SEQ ID NO:805:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 352 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:805:

```
GAATTCGGCT TTCATGGCCT ACAAGAAGCT GGAGGAAAAA AATACGCTGG CTCAGGGCTT      60
TCAGAGAAGA GAGGAAAATG GTACAGGAAG ATGAAAAAAT TGGCTTTGAA ATTCTGAAA      120
ACCAGAAGAG GCAGGCTGCA ATGACTGTGA GAAAGTCCC TAAGCAAAAA GGTGTCAACT      180
CTGCCCGTTT CAGNTCTCTC TTCTTACCCA CCACCGCAGG ACCCGTTAAA CCACGGCCAG      240
TACCTGGTCC CCGACGGCAT CGCTCAGTCG CAGGTTTTTG AGTTCACCGA ACCCAAGCGC      300
AGCCAGTCAC CATTTTGGCA AAACCTTCAGC ATGTTAACCC CCATCACTCG AG          352
```

(2) INFORMATION FOR SEQ ID NO:806:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 272 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:806:

```
GCACCCCGGG AGCTGAGTGA TTGCAGAAAC TGGCCTTCCA TCTCTCTCAG ACACCAAGCT      60
GCAGATCCAG GCTTTTCTGG GAAAGTGAGG CCACCATGGC TCTGGAGAAG TCTCTGTGCC      120
GGCTCCTTCT GCTGTCTCTG ATACTGCTGG TGCTGGGCTG GGTCCAGCCT TCCCTGGGCA      180
AGGAATCCCG GGCCAAGAAA TTCCAGCGGC AGCATATGGA CTCAGACAGT TCCCCAGCA      240
GCAGCTCCAC CTACTGTAAC CAAGGTCTCG AG                                         272
```

(2) INFORMATION FOR SEQ ID NO:807:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:807:

```
GCCTTCATGG CCTAGGAGAA GAGCGGAGCG TGTGAGCAGT ACTGCGGCCT CCTCTCCTCT    60
CCTAACCTCG CTCTCGCGGC CTACCTTTAC CCGCCCCACC CTCAGGAAGT TTTGTTAGGA    120
AAAAATTGAA AGAACTTAAG TCTCGAATGT AATTGGAATC TTCACCTCAG AGTGGAGTTG    180
AAACTGCTAT AGCCTAAGCG GCTGTTTACT GCTTTTCATT AGCAGTTGCT CACATGTCTT    240
TGGGTGGGGG GGAGAAGAAG AATTGGCCAA GCTCGAG                                277
```

(2) INFORMATION FOR SEQ ID NO:808:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 279 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:808:

```
GAATTCGGCC TTCATGGCCT AAACACAGAA AAACCAACTT TCTGATACCT TTCTCCCTGT    60
ATGTTTATCT TCTTTGTCTA GTTTTTCAGC AGAAATATGC CCGTTTCCCC CTGATAATTC    120
CCTTCCTTAG AGACAGCATA ATTGTAGACC TGGCCAGAGA AATGCTGAAA ACAAAGGGAA    180
CCCCCTTGAG CCCAGCCCTT CACCTGCTCT TAGCACTTCT TCAGAGGTTT ACTCTGGAGT    240
GAATGAAGTA GTGTGACCAG AACTCCTGG CACCTCGAG                                279
```

(2) INFORMATION FOR SEQ ID NO:809:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 247 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:809:

```
GAATTCGGCC TTCATGGCCT ACCTTCGCCT TCTGTCTTTC TCGTCTCTAC TAGCAGGTGT    60
TTACTCCAAT TCCTATGGGC CAGAGTTTGC TCACTGCAGA GAAATACAGT GGAATTCGCT    120
GGGCAATGGT TTGGCTTATG AAGACTTTAG TTTCCCCATC TTTCTTCTTG AAGATGAAAA    180
TGAAACCAAA GTCATCAAGC AGTGCTATCA AGATCACAAC CTGAGTCAGA ATGGCTCAGC    240
ACTCGAG                                247
```

(2) INFORMATION FOR SEQ ID NO:810:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 561 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:810:

```

GAATTCGGCC AAAGAGGCCT ACCCGGGCTC AGTGTGCCGA CTTCTGACTG CAAATGATCT    60
CATTTTCTAA AATCTTTCTC CCATTCTCCT TTAAGAAAAA ATCTTAGTTA TTAATAATCT    120
GCCTCACAAA CTTAGAAATG CTTAGAGTA AGTATCTGAG AAGCAAGCCC ACCCCACATC    180
CACCATATAT CATCGTTTCT GTTAAGGGCC ANCCCATTTT CAGACAAA TTCTATCTTC    240
TTCCTCCCAT CCCACTTACT TTTGACTTTG AAGGTGGATT ATCTCATCTC AAATTTTCCTT    300
NCCAGAATAG NACCACATT CAGCAAAATA TTGGGTGGCT GGTTCCTTTC TTCAAGACCC    360
ACCTGCATCT GTGTTGGTCC TCTATGTGAG GAAGGTCCTC TATGTGAGAA GATCTGAGGG    420
GTAGGCAGGT TTAATGGAC TAAGATTTTT TTTATATGTA TAAGGGGGGT GGGAGGAGGA    480
TTTTAGAAAA CTAGATCCAT TGGCCTGCAG TTAGAAGTCG AACACTGAAC TTGGGAAGGC    540
TTTCTGTGGC CGAACCTCGA G                                561

```

(2) INFORMATION FOR SEQ ID NO:811:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:811:

```

GAATTCGGCC AAAGAGGCCT ATCAATTNGT TTTNTTACTT GGACTGTGA TTTATTATNT    60
NTAATTATNG TNAANTNNTA AAGCTCAATT TTACCAGCTT CAGCAGTTT AAGTGATAG    120
TTGCACAACA CNACATAACT CATCTAAGGT GAATTATACT GTAATTTTCT TTTNGTGCTT    180
AGCTTTTTCG NATTACCATA GTATCCTGAA GTTTTGTGAT TGTNGTACCA TGAGACAGGA    240
TGTTATAAGA TTAATATTTT AATGTATATA TATGCCTAGC ATATTTTCNT TATGCATGCA    300
GCCACTCGAG                                310

```

(2) INFORMATION FOR SEQ ID NO:812:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:812:

```

GAATTCGGCC AAAGAGGCCT AGGCGGCAGG AGGCAGTGGC GTTGGTGGA AGCGCAGCTC    60
GAAAAGCGAT GCCGATTCTG GTTTCCTGGG GCTGCGGCCC ACTTCGGTGG ACCCAGCGCT    120
GAGGCGGCGG CGGCGAGGCC CAAGAAATAA GAAGCGGGGC TGGCGGCGGC TTGCTCAGGA    180
GCCGCTGGGG CTGGAGGTTG ACCAGTTCCT GGAAGACGTG CGGCTACAGG AGCGCACGAG    240
CGGTGGCTTG TTGTCAGAGG CCCCAAATGA AAAACTCTTC TTCGTGGACA CTGGCTCCAA    300
GGAAAAAGGG CTGACAAAGA AGAGAACCAA AGTCCAGAAG AAGTCACTGC TTCTCAAGAA    360
ACCCCTTCGG GTTGACCTCA TCCTCGAG                                388

```

(2) INFORMATION FOR SEQ ID NO:813:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 460 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:813:

GAATTCGGCC AAAGAGGCCT AAGCAAGCTC TGCTTTAGTT TCCAAGAAGA TTACAAAGAA	60
TTTAGAGATG TATTTGTCAA GATTCCTGTC GATTCATGCC CTTTGGGTTA CGGTGTCCTC	120
AGTGATGCAG CCCTACCCTT TGGTTTGGGG ACATTATGAT TTGTGTAAGA CTCAGATTTA	180
CACGGAAGAA GGGAAAGTTT GGGATTACAT GGCCTGCCAG CCGGAATCCA CGGACATGAC	240
AAAATATCTG AAAGTGAAAC TCGATCCTCC GGATATTACC TGTGGAGACC CTCCTGAGAC	300
GTTCTGTGCA ATGGGCAATC CCTACATGTG CAATAATGAG TGTGATGCGA GTACCCCTGA	360
GCTGGCACAC CCCCTGAGC TGATGTTTGA TTTTGAAGGA AGACATCCCT CCACATTTTG	420
GCAGTCTGCC ACTTGGAAGG AGTATCCCAA GCTTCTCGAG	460

(2) INFORMATION FOR SEQ ID NO:814:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 225 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:814:

GAATTCGGCC AAAGAGGCCT AAAGTGCTTT AAAACAATTT TTTACTGTGG ACAACCGAAG	60
ACCACAAAAC ATTTGAGAAC TACCATGACA GACAGAGAAC AAAATTACAA AACAGAAAAA	120
GTTAAAAAAC AGGAGAACTG CACCACTGCA CTCCAGTCTG GATACCAGAG AGAGACTCCA	180
TCTCAAACAA AACAAAACAA AACAAAAAAA CCCCCAAAAC TCGAG	225

(2) INFORMATION FOR SEQ ID NO:815:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 140 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:815:

GAATTCGGCC AAAGAGGCCT ATTTATCGTT TAAAAAAGTC AGTAGAACTA AACATGAAAG	60
TGATTCTTCT GATTTTGTGG GGGGTGGTTA TTGACATG GAAACAACAA CAAAAATGCT	120
TCAGATACAA TTTGCTCGAG	140

(2) INFORMATION FOR SEQ ID NO:816:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 540 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:816:

```

GAATTCGGCC AAAGAGTCCT AAAACCAACA AGCCAGGCTG ATTTTCTAGA GGGATCAGTG      60
ATGTGGGGTA CAATGACACC TTCCCTGTGG CTTGTTATGC CTCCGGTTT GTTTTGAAT      120
CTTGGTTGCT GGTGGGGTAT TGCCCCCTCG GCTCCTCTAT GCTTTCGCGT GTGTGAAAT      180
GCAGGAGTGG ACCACTGTGC ACAGCAGGAC CATGGCTGTG AGCAGCTGTG TCTGAACACG      240
GAGGATTCTT TCGTCTGCCA GTGCTCAGAA GGCTTCTCTA TCAACGAGGA CCTCAAGACC      300
TGCTCCCGGG TGGATTACTG CCTGCTGAGT GACCATGGTT GTGAATACTC CTGTGTCAAC      360
ATGGACAGAT CCTTTGCCCTG TCAGTGTCTT GAGGGACACG TGCTCCGCAG CGATGGGAAG      420
ACGTGTGCAA AATTGGACTC TTGTGCTCTG GGGGACCACG GTTGTGAACA TTCGTGTGTA      480
AGCAGTGAAG ATTCGTTTGT GTGCCAGTGC TTTGAAGGTT ATATACTCCG TGATCTCGAG      540

```

(2) INFORMATION FOR SEQ ID NO:817:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 597 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:817:

```

GAATTCGGCC ANANAGGCCT ACTNNNAGGC CTGTCGANAN GCGTTGGGTN CTGANGTGAC      60
AGCTTTCCCC NTCCATGGGA CNCNTTCCA GACNNTCGNC ACNTCTNCTG AGGTGAATTN      120
NCTGTGGGTN TTANGTCTGG GGTGGANNTT CTCTCTCCCC NNNTCTNACT TCNGTAGATG      180
TGGACCTNGN CCNNCNNTCC ATTGGTCCNC TGCCCTGTGT CTCCAGGGTG CTGCCTCTGC      240
CTCCTCATAT CACCAGCGTC CCCACTGCCA CTAGTCTGTA GGGGGATTCC GGGCTAGGTG      300
CTCTTCCCAT TCGACTTCAA CCAACTTATA TAGCTCCATG GTGGCCTGGG CATCTCCAC      360
AGAGGATGTC CGCTCTTCCC NACCTGGATA TCCCGGTTA GCAGCTTCTT GGTGAGATGC      420
TTCAGAGACA TGGTGGCATT CTCCGGGCAG TCAGCCTTCC GGTGAGGGG GGGGATATGG      480
GAGGTGTGTC GGGTGAGGGA CTTGGGTGTA AAGTACTGAA GGGCTTTGAA GTCGTGTGTC      540
ATGGCATGCC CCACCACTAT CTTNCCCTGT GAGTATCTTC AAGATCTGCC CCTCGAG      597

```

(2) INFORMATION FOR SEQ ID NO:818:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 517 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:818:

```

GAATTCGGCC AAAGAGGCCT AGGAAATGAA ACGAATGCAT AAAGCTCTCC AGAAAGATCT      60
GCCAAGACCA TCAGAAGTAA ATGAACTAT TCTAAGACCC TTAAATGTAG AACCGCCTTT      120
AACAGATTTA CAGAAAAGTG AAGAACTAAT CAAAAAAGAA ATGATCACAA TGCTTCATTA      180
TGACCTTCTA CATCACCTT ATGAACCATC TGGAAATAAA AAAGGCAAAA CTGTAGGGTT      240
TGGTACCAAT AATTGAGAGC ACATTACCTA TCTGGAACAT AATCCTTATG AAAAGTTCTC      300
CAAAGAAGAG CTGAAAAGG CCCAGGATGT TTTGGTGCAG GAGATGGAAG TGTTAAACA      360
AGGAATGAGC CATGGAGAGC TCTCAAGTGA AGCTTATAAC CAGGTGTGGG AAGAATGCTA      420
CAGTCAAGTT TTATATCTTC CTGGGCAGAG CCGTACACA CGGGCCAATC TGGCTAGTAA      480
AAAGGACAGA ATTGAATCAC TTGAAAAGAG GCTCGAG      517

```

(2) INFORMATION FOR SEQ ID NO:819:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:819:

```

GAATTCGGCC AAAGAGGCCT ACTAAATTCT CATATATCTG TGTTCCTAGA ATACTTTGCC      60
TTTTTGGGCT TAGTTAATGG TAAGATTCTC ATGTCTGTCT ACATAGGAAT ACTCCACCGT      120
ACAGGACACT GCTTCTGGG TTAGTTCAT TGATAATTG TCCGAATGCT CATAAACATG      180
TCTATAGGAA TACTCCAATA TATCTAGGAC ACAGTTTTCT CCGCTCCTGA ATACAGGCAG      240
ATTTGTTTC TTTCTGCCTC CCTGTGTTAA TGAGAAGGTA GTCCAGCAGG TTCTCTCTAC      300
CTCCTTGCTT TTTTTCCTCC TTAATGCTCG AG                                     332

```

(2) INFORMATION FOR SEQ ID NO:820:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:820:

```

GAATTCGGCC AAAGAGGCCT AACCTGCTCC GTGGAGCGCC TGAAACACCA GTCTTTGGGG      60
CCAGTGCCCTC AGTTTCAATC CAGGTAACCT TTAAATGAAA CTGCGCTAAA ATCTTAGGTC      120
ATACACAGAA GAGACTCCAA TCGACAAGAA GCTGGAAAAG AATGATGTTG TCCTTAAACA      180
ACCTACAGAA TATCATCTAT AACCCGGTAA TCCCGTATGT TGGCACCATT CCCGATCAGC      240
TGGATCCTGG AACTTTGATT GTGATATGTG GGCATGTTCC TAGTGACGCA GACAGATTCC      300
AGGTGGATCT GCAGAATGGC AGCAGTATGA ATACCTCGAG                                     340

```

(2) INFORMATION FOR SEQ ID NO:821:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 518 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:821:

```

GAATTCGGCC AAAGAGGCCT AGGAGCTATA ATCTTGTAAC AGAGTCTACG TGATTGTAGG      60
ACAATAGGCA CCACACAAAT ATGAGGAAGC AGGTCAGAGA GCGGGCTGAC TTAATGATTA      120
ATGCTGAATG TGCTACAAGC TTGTTTCATT TTCATTTCTC CTCCTCCCTT TTTTCCTGAT      180
TAATTTAATA AAGTTCATAG GGGAGGCTTC AAACACATGA GAAATTAAAA CCTTTATTAC      240
CAGAGTCAGA GCCTGACTAT ATTGATTGAG TGAAGCTTTC CTTTATAAAA TGCAAAGCAT      300
GTAAACAATT CCAACACAGT AACATATTCA TGAGTTTTTA AATTCATGAG TTTTAGAGAA      360
AATATTTTAC TTAAACCAG CACTTGATGA TCTCTGACAA TGTTATGTAG CCTGAACCTG      420
GAGTTTTGGC TGATGGGTG TCTCAGCCTG TGACAGGTTT TAGCTGGCTT TGTTTCATCT      480
TGTATCACAC CCCACACTC ACATGCTCAC CACTCGAG                                     518

```

(2) INFORMATION FOR SEQ ID NO:822:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:822:

```

GAATTCGGCC AAAGAATTCT AGACCTGCCT CGTGCCTAAG GCAATTGAAT CGAGGGTTAA      60
GGGTTTCATCT TGCTAATGTC AAAAGTGACA CTAACAAGAT TCTTAGCCTC ATCCGCCAGA      120
TGACGGGCCT CCGCTCGAG                                                    139

```

(2) INFORMATION FOR SEQ ID NO:823:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:823:

```

GAATTCGGCC AAAGAGGCCT AAGATGAGAA AATCAAGGTT CTTAGATGTT CTGGAATTTG      60
TTCATTTTCA CATGATTGGA ACATTGTGGT CTTGTCTTTC AAGTCCATGT CTACCATACT      120
CCACAGACCC TTTTCTGTCC ACTTTGTCAC CTATAATTCT GAACTCCAAT ATAAAGACTT      180
CACCGTATTT GAAAGAGAAT AGTGGGAAGT CTGATGCTCA ATTTTGTGTA CAGAACAGTT      240
GCCTCTGTGA CATTGTAACT GCTGAAATAA GAAAATCCCC TTTTGATTCA GGAGCTCTCG      300
AG                                                                    302

```

(2) INFORMATION FOR SEQ ID NO:824:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:824:

```

GAATTCGGCC AAAGAGGCCT AAATCAGCAG TGAATCAGA ATCAATTGAG TGACATNGAG      60
TCAGTAAATC TCTGACTGCC TCAGTTACCC CATATGATAG TTTTGAGGAT GGGAACATTG      120
AGAGAGTTGA TTTGGAAGCA TATCAAGAGT AAAAATTCCA ACATTTTtag TTCCTTTAAG      180
TTAAATCCAG GCACTGTCTT TCCTGCAAG TCTCCTGTTT CTTTCAGATT GCACAGGTGA      240
GAGTGCTCAG ATTAGGGCTG GAGGTTGTAA ACCATTGCTC CCGTCCTCGA G                291

```

(2) INFORMATION FOR SEQ ID NO:825:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 545 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:825:

```

GAATTCGGCC AAAGAGGCCT AAGCTTTTTT TTTTITACA GACTTCACAG AGAATGCAGT      60
TGTNTTGACT TCAGGTCTGT CTGTTCTGTN GGCAAGTAAA TGCAGTACTG TTCTGATCCC      120
GCTGCTATTA GAATGCATTG TGAAACGACT GGAGTATGAT TAAAAGTTGT GTTCCCAAT      180
GCTTGAGTA GTGATTGTTG AAGGAAAAAA TCCAGCTGAG TGATAAAGGC TGAGTGTGA      240
GGAAATTTCT GCAGTTTAA GCAGTCGTAT TTGTGATTGA AGCTGAGTAC ATTTTGCTGG      300
TGTATTTTGA GGTAATATGC TTTTGTTC TTTCTGGTGG TGGGAGGGGA CTGAAGCCTT      360
TAGTCTTTTC CAGATGCAAC CTTAAATCA GTGACAAGAA ACATTCCAAA CAAGCAACAG      420
TCTTCAAGAA ATTAACTGG CAAGTGGAAA TGTTAAACA GTTCAGTGAT CTTAGTGCA      480
TTGTTTATGT GTGGGTTTCT CTCTCCCTC CCTTGGTCTT AATTCTTACA TGCAGGGAAC      540
TCGAG                                         545

```

(2) INFORMATION FOR SEQ ID NO:826:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 91 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:826:

```

GAATTCGGCC AAAGAGGCCT AGGTGGTGGA ATCAAGGCCA TGAAGGACCT GTTTATGCGG      60
TGCATGCTGT TTACCAGAGG AGGGCCTCGA G                                         91

```

(2) INFORMATION FOR SEQ ID NO:827:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:827:

```

GAATTCGGCC AAAGAGGCCT ACTAAGAAAT GCTATTGGAT CTTAGTTTG TTCAGCTTTA      60
TTTTTCTTAT AAGGATGAAA GTGTTGACTT ACAAGCTCTT TATATATCAG ACCAGAACT      120
ACTTTTTAAA AAATATAAAA TGTAATCACC ATCTAAAGCA CTTNGCACAA TGCATGGCAT      180
GTAGTGAGCA CATATTTTGA GCTCTTACTG TTATTTATTA TTATCCATT GAGAAAAACA      240
TTTCCTAATA ATAATGAAAT GACAACATGA TATGGTAGCA TCACAAAAAT CAATACATCT      300
TTCTAAACAT ATTAGAAATT ATTTCTGTAT GAAATAACAG GTTAAAGGAA AAAATTTAAT      360
GTGGTCAGAA GTGTGCAATC AAAATAATGA GATGACATTG GCATGAAGAA CAACTCGAG      420

```

(2) INFORMATION FOR SEQ ID NO:828:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:828:

GAATTCGGCC AAAGAGGCCT AGAATTCTAG ACCTGCCTCG AGCTTAGGGT GACAGAGTGA	60
GACTCCGTCT CAAGAACTAG AAGAGTCCTG AAGTTCCTTC TGGAGTATTG GTGTGATAGA	120
AGCATTAGTA GTTCTTTTTA TGTTCTGGAG AACTTCTGTG CACATAAATG TTTATAGATA	180
TATACCCCGT TTGTATACCA AAGGAATCTT CATTATTTT CACTGAACAA AACACCTTAG	240
AGAACATTTT GTTTGTTTTG CCAATCAATC TAATTCTTTT AAATGACCAC ATAGTATCCC	300
ACGGTAAGTT TTTTGTTTTG TTTTITTTAA AATCATGATT TGTTTAAACA TGTCCTATTG	360
CTCTCGAG	368

(2) INFORMATION FOR SEQ ID NO:829:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:829:

GAATTCGGCC AAAGAGGCCT AATGTTTTTC AATACCTCAG TATATTGTAG GGACTTGTTG	60
AGAACTTGTT GAATGAATAT ATTGTTTCTG GTTACCATT ACTCAGTATT TTAGTTGTCA	120
CATCTTAAAA TAGATAATCA TTTTACCAT CACACTCCCT TCATAAGATA TAGAAATAAA	180
GCCCTTCTTG TTTGGAAATG GTGGTATTTT GGTTTTACTT TTTTAAAGT TACTGTGTGA	240
AGGTACTACT TTAATATTTT TATTTAACTT TATTTGTTTG TCTTTAGTAG GACTAAGCTA	300
ATGAGAGCTT TGACTTGCTT AAACGTTGGG CAGGAAAACT CGAG	344

(2) INFORMATION FOR SEQ ID NO:830:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:830:

GAATTCGGCC AAAGAGGTCT AGAAGACTTT TGTATTTTTG ACTTTGCTAG TTTGTGGCAG	60
AGTGGAGAGG ACGGGTGGAT ATTTCAAATT TTTTATGAT AGCGTATCGC AAGGGTTTGA	120
CACGGCTGCC AGCGACTCTA GGCTTCCAGT CTGTGTTTGG TTTTATTCT TATCATTATT	180
ATGATTGTTA TTATATTATT ATTTTATTTT AGTTGTTGTG CTAAACTCAA TAATGCTGTT	240
CTAACTACAG TGCTCAATAA AATGATTAAT GACAGGATGG GGTCCCTCG TGCTTTTACC	300
AGTAGCATGA CCCTTCCTGA AGCCATCCGT AGAAAGTACC TTGTCCTCGA G	351

(2) INFORMATION FOR SEQ ID NO:831:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:831:

GAATTCGGCC AAAGAGGCCT AAAACAAGAT CCACTGGAGG GTCATGTCTG AGTTGTTCTC	60
TTGATGATTT TGGCTGATTA TCTTAATGCC CTTTTCCATT TCTGATGCTC TTGTTCTACA	120
TTTTGGGTGA AAATACCAAT ATTTCTAATT CTGTATCACA TCATCTCACT GTGTAGCAAG	180
GCAGGTCTCC ACAAATTACC CCGTTCCACC TGGAGAGCTC CTTATTGACT TAACGTGATA	240
TTCAGCCAGG TTTTCTTCC TGTAATAGTT GCTTTGCCTT TAGCAAATTG CCTGGATCAT	300
TGACCTTTCT TAGCCCATGC ATAAATGCC AACTCGAG	338

(2) INFORMATION FOR SEQ ID NO:832:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:832:

GAATTCGGCC AAAGAGGCCT AATATTATAG AACCACCATA TGTACATTTT TCATAGAGTT	60
TGGGAATGAA ATAGTAAAAG GTATATAGAA AACTAAGAAA AGGGAAAATT CTGGGGGGCT	120
GGGATGAGGA AGTGATTAGC ACCAGGGAAA ACCAAAGTTT ATACCAGAAA GGAACCTAA	180
TATTAGGCTG CCATATTAAG CCATGTGGCT GGGCTACATT GTGTTAAGTC ACTGATGAAT	240
GATCTAAACA AGAGTCTGCA TATAACCAAA TCAGGAAGGC TTGAAGAATG TGTGTGTTAT	300
TGGGGGGAAC GGTGTCTACA GTAGGAGGTA GATGGTTATG TAAACTAGA GAAAAGGAAC	360
TAAATAAAG TGTTAGTTGG AATATATTAA TAATTGTCAG TGAAACTCG AG	412

(2) INFORMATION FOR SEQ ID NO:833:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 151 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:833:

GAATTCGGCC AAAGAGGCCT ACTGTGGGTT TATATTGATG TGTAACAAGT TGATTTGGAA	60
CACTGGACTC TCATTCTGTT ATTCTGGTTT TGTTTTTTTT GTTTTGTTT TTTTCTTTT	120
TAAAGGCAAT GAGCTAGTCC CAGATCTCGA G	151

(2) INFORMATION FOR SEQ ID NO:834:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:834:

GAATTCAGCC TTCATGGCCT ACTCTCGTTG AAGATGTGAA TATCTGTCTG CAGGCATGCA	60
GCAGTCTACA CGCTCTGTCC TCTTCCTTGC CAGATGATCT TTTACAGAGA TGTGTTGATG	120
TTTGCCGTGT TCAACTAGTG CACCGTGGAA CTCGTATTCTG ACAAGCATTT GGAAACTGT	180

TGAAATCAAT TCCTTTAGAT GTTGTGCGGA TTGAATTCTA GACCCGCCTC GAG

233

(2) INFORMATION FOR SEQ ID NO:835:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 228 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:835:

GAATTCGGCC TTCATGGCCT AGAACTGGGA GGTAGAAACA AAAATGACTG AACATCTTTT	60
TATCCCCCAA TCGTTACAAA GCCTAAATAA CTCTAAACGG GATGGGAGGG CAAATTTTAG	120
GTCACTTGAC ATCCTGGAGA AGATATCCTA GGTCTGTCT CATTCCCTAG ACCGCATAAC	180
ACTCCAACCG TGTAGCCAT GAAGATTGAA TTCTAGACCT GCCTCGAG	228

(2) INFORMATION FOR SEQ ID NO:836:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:836:

GAATTCGGCT TCATGGCCTA GGCTGGTGAT CCATGATGCA AATAATAATA ATAATGATGA	60
TTTTTTTAA TGTACAGCTC TCACACAAAT TTCATTTTGT GAACACACTG GTAAGTACAC	120
GATGCTGGGG CTTCACAAAT GTGGCGTATC CCACTGATGG CTCCAACCTG CGAGTGGGCT	180
CAGTTATGAA AAACTCGGGA GAGGACGGGT TGTCGCTGCT CGAG	224

(2) INFORMATION FOR SEQ ID NO:837:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:837:

GAATTCGGCC TTCATGGCCT AGGAGCTGTT GCACTTTGGG CCTTGGCAGG ACAAACACTA	60
AAACAACAAA AATATATGGC AGAACAAATT GGATACAGCT TTATAATAAA TATGCTTTTG	120
TCACCATCAG CTAAATGCA GTATGTTGGT AAGTTATTTT CCTATTTTTA TTTTATTTT	180
TTAGAGACAG GATCTTGCTC TGTGCCCCAG CCTGGTGTGC AGTGGCACAA TTATAGCTCA	240
CTGCAGCCTC AAACCCCTGG GCTCGAG	267

(2) INFORMATION FOR SEQ ID NO:838:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 514 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:838:

```
GAATTCGGCC TTCATGGCCT AATCAAACCTC AACTACGCC CTGATCGGCG CACTGCGAGC      60
AGTAGCCCAA ACAATCTCAT ATGAAGTCAC CCTAGCCATC ATTCTACTAT CAACATTACT      120
AATAAGTGGC TCCTTTAACC TCTCCACCCT TATCACAACA CAAGAACACC TCTGATTACT      180
CCTGCCATCA TGACCCCTGG CCATAATATG ATTTATCTCC AACTAGCAG AGACCAACCG      240
AACCCCTTC GACCTGCGG AAGGGGAGTC AGAACTAGTC TCAGGCTTCA ACATCGAATA      300
CGCCGAGGC CCCTTCGCC TATTCTTCAT AGCCGAATAC ACAAACATTA TTATAATAAA      360
CACCTCACC ACTACAATCT TCCTAGGAAC AACATATGAC GCACTCTCCC CTGAAGTCTA      420
CACAACATAT TTTGTCACCA AGACCTACT TCTAACCTCC CTGTCTTAT GAATTCGAAC      480
AGCATACCCC CGATTCCGCT ACGACCATCT CGAG                                     514
```

(2) INFORMATION FOR SEQ ID NO:839:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 291 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:839:

```
GAATTCGGCC TTCATGGCCT ACTACATAGA CGTGGATTTT AGGGGGACAA AATTCAACCA      60
CTACCGTCTC TTTGCTTGAA ATCACACACA ATTCCAGAG GCCTAGAGAT GCCACTTTGT      120
CCGAGATCT CTTCTGGCC CCGCCTCTGT CTGGGCAGCC TGGGTCTGAT TGTCTTCTG      180
TCTGCCACCC TCACAGTCTC CAGCCGTGGC CTGGTTCCTG TCCTGGGGGC TGACCAGCCT      240
TCTGGGGCCT GGGACCTGGG GCATCGCTGC TGCTGCCGG CTGACCTCGA G                291
```

(2) INFORMATION FOR SEQ ID NO:840:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 221 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:840:

```
GAATTCGGCC TTCATAGCCT ACCTAAATTA ATAATAATGT ATAGTTCAGA ATTGCTAAGA      60
GTACTTTTTT TTTTTTTTTT TTGAGACAGG TTCTCGCTCT GCCCTCCAGC CTGGTGACAG      120
AGCAAGATTC CATCTCAAAA AAGAAAAAAA ACACACAGCT AATAGAATTG CCATTGTTTT      180
TCATAATAGA ATCTAGCTGC TTAATCCAAC CTCACCTCGA G                          221
```

(2) INFORMATION FOR SEQ ID NO:841:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 445 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:841:

```
GAATTCGGCC TTCATGGCCT AGTAAAGTTT CTCTCACCCC ACTTTAATTT CATGTGCCAC      60
ATTTTTTCCT TTCTGAACT ATATTGCTTC CCACATTCGG ATTTTAGAAT TTTTCTTTTT      120
AAAGAGATTG TATTTTAAAT TATATTGGC CTAATTCCCC ATGTCAATG CTTGTACCGT      180
GTGAGAAAGTC CCTAGGATGA TAGTCATGGT TTTTCCCAT CTTATTAGCT TATTATTCTC      240
CTTGCCACCC CCCACCCCT GGCAGCTTCC CACCCTCTCT AATGCTTCTG GAAGCTACTA      300
AGAAGTTTAA GTGGCCTATG TGAAAATATG TCAGTGTCCT ATTTAGCAT ATATATGTAA      360
CATTTACAAT TTATACCCCT GCCTACATCC GAGAGGGTTG TGAGGTGGCT TATGATGATA      420
AAGAAAAAAA CCCACATATC TCGAG                                         445
```

(2) INFORMATION FOR SEQ ID NO:842:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:842:

```
GAATTCGGCC TTCATGGCCT AAATTTATAA GGTACTCTTT AACAATTTAT ATCAGAGTTA      60
GTGCTATCT TTAGCACCAT TGTCCTGATG GCCTCCACTT CTAGCTATAC ATTGCCTCTT      120
TGAAATGAGC CATTGGGAG GCAATATAT CAATTAGAAT GCCTTTAAGA ATAAAAAACT      180
TAAAAAGCAA AGAAAAACAG AATGCCTTTA GGAAAAAATT TAATAAAACC AACTCAAAAT      240
TGTGCAACA AGGAAATTTT AGTGTTTCCC ATAATAAAC CTCGAG                         286
```

(2) INFORMATION FOR SEQ ID NO:843:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:843:

```
GGTTCCTAAG TAATTATATT CCAAGGAACA TAGGAGGGGC AAAAATAATT CTAAAGACAT      60
AAAGAAAGAA ACAGGATATT TTCTAAATAT TTTTATCTTG AGACAGAACT TGGTTTTTTT      120
TTTGCTTTA GCTTGGAAAA TCTCGTGTCA TAGATAAATC TTTCTCCTAT CTTGAAATTG      180
GTCTTATCAA GGAAC TACCC GCATTGAGAT ATGAAGCTCT GGGCCTCTCT GGTAGCCTTG      240
CACACCCTTC ATTCATCACC TGGTCCCCCA GATAAGACAG CCCTGACCTC AGAATACACC      300
TTGATTAA CATTCTATGG GACATTTATT TCTAGTCTAC CCCCATCCCT CGAG                         354
```

(2) INFORMATION FOR SEQ ID NO:844:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:844:

```

GAATTCGGCC TTCATGGCCT AGTGGAAAAA ATAAGATATT TCTTAAAGTA ACAAGGCCTG      60
AATAAATGTG TGGCAGTCTC AAATCTTATT CTATATCTCA GGTGTAATCC TTACATACTA      120
AAGATAGTGG GATCATCCTT GTAGATTCTT AGCAGACTGG TACATTAAAA AGTGACAATG      180
TTTGGGGTAT GACAGTATAA AAAAAGGTTT AATTGAGAA AAAGGATTAA GTTAAATAGT      240
AAACTTAGTG TGAGATTTTA ATCACAAGTA CAAAAGAGTG AAGAGCAGCC TTCATGACAA      300
GGAATCATGT GACCAGCCCC CACCCCAAAC TCGAG                                     335

```

(2) INFORMATION FOR SEQ ID NO:845:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:845:

```

GAATTCGGCC TTCATGGCCT AAGAAAGGGT GGGAACAAAC ATTGATCACA TTTATGGAAA      60
CCTGCCTTCT CGTGCTGGGC ACTTTATATA TGTATCTCC CTTTGTGGTG CAATCTCATG      120
ACATGCAGTC ATTGTCCATG TTGTGGGTG AGGAAACAGG CTTAGGGGTG GGAGGCTCGC      180
CTGAGGCCCC AACTGTTGG CTGGAGACAG CGTGGGGCCT GAGTCTTGCT CACAGCCTGA      240
ACGCTGCACT CTGCTGCTCC GCGTCCCAGG AAGGAAAAGC TGCTGCAGTG GGTGTTGTTT      300
GCCAAATACA TGGAGGCTTT TTTCTGGGTG AGTGCCAGC AGTTGATTGT TCTGTATGCC      360
TCGAG                                     365

```

(2) INFORMATION FOR SEQ ID NO:846:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:846:

```

GAATTCGGCC TTCATGGCCT AATCCATGTT GTACAACTGA AATATAAATA ATTTGTCAA      60
TTATACCTAA ATAAACTGG AAAAAAATTT CTGGAAGTTT ATATCTAAAA ATGTTAATAG      120
TGCCTACCTC TAGGAAGTGG GCCTGGAAGC CATTCTTACT TTTCAGTCTC TCCCATTCTG      180
TACTGTTTTT TGTTTACTT TCGTGCGCTG CAGGTCTAGA ATTCAATCG                                     229

```

(2) INFORMATION FOR SEQ ID NO:847:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 575 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:847:

GAATTCGGCC	TTCATGGCCT	AGGGGAGAGT	ATCATCTCAC	CAAAGGTGAA	AATGGCATT	60
CGGACATCAG	GACATCTCTT	ACTGGGAGTA	GTTCGAATCT	ATCACAGGAA	AGCCAAATAC	120
CTTCTTGCAG	ACTGTAATGA	AGCATTTCAT	AAGATAAAGA	TGGCTTTTCG	GCCAGGTGTG	180
GTTGACCTGC	CTGAGGAAAA	TCGGGAAGCA	GCTTATAATG	CCATTACTTT	ACCTGAAGAA	240
TTTCATGACT	TTGATCAGCC	ACTGCCTGAC	TTAGATGACA	TCGATGTGGC	CCAGCAGTTC	300
AGCTTGAATC	AGAGTAGAGT	GGAAGAGATA	ACCATGAGAG	AAGAAGTTGG	GAACATCAGT	360
ATTTTACAAG	AAAATGATTT	TGGTGATTTT	GGAATGGATG	ATCGTGAGAT	AATGAGAGAA	420
GGCAGTGCTT	TTGAGGATGA	CGACATGTTA	GTAAGCACTA	CTACTTCTAA	CCTCCTATTA	480
GAGTCTGAAC	AGAGCACCAG	CAATCTGAAT	GAGAAAATTA	ACCATTTAGA	ATATGAAGAT	540
CAATATAAGG	ATGATAATTT	TGGAGAAGGC	TCGAG			575

(2) INFORMATION FOR SEQ ID NO:848:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 539 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:848:

ATCCTGGAGT	GCAAAAATAA	AATCCACTCA	AGAGTCACAA	GGCCCGCTGT	GCATAATCGG	60
TTTCACTTTT	ACCTTTTTTT	TTTTTTTTTT	TTTTNGAGAC	AGGTCTCACT	CTGTCACCCA	120
GGCTGGAGTG	CAGTGGCACA	TTCTCGGCTC	ACTGCAATTC	CGCTTCCTGG	GTTCAAGTGA	180
TTCTCCACCC	TCAGCCTCCC	AAGTAGGTGG	GATTACAGGT	ACTCACCACC	AGGTCCAGCT	240
AACTTTTGTA	TTTTTAGTAG	AGACAGGGTT	TCACCATGTT	GGCCAGGCTG	GTCTCGAACT	300
CCTGACCTCA	GATGGTCTGC	CCACCTCCGC	CTCCCAAAGT	GCTGGGATTA	CAGGCGTGAG	360
CCACTGCGCC	CGGCCACTTT	CACACTTTTT	ACAGTGAGTG	GTGAATTAGC	AACAGTAACA	420
CTGATTATCC	AACATATATT	TTGGAATATC	TACTATGTGC	AAGGAATTTT	TCTTAAACTC	480
TAAGGTATG	AATCACTGGG	CAAATCCATA	TAATTAGAGA	ATTTTAAGTG	CGTCTCGAG	539

(2) INFORMATION FOR SEQ ID NO:849:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:849:

GAATTCGGCC	TTCATGGCCT	AGGGGGAAGA	CGGGAAGCAT	ATAAATAAAC	AAATAATTTT	60
TAAAAGCAAC	TTTTTTAAAG	CAAGTGGGAG	GGGCATGCTA	GTTTTAAGAA	CTGTAATAAA	120
AAACACCACC	CATTGTTTTT	TTTTTGTTT	TTCTTTTGG	AGACAGAGTC	TTGCTCTGTC	180
ACCCAGTCTC	GAG					193

(2) INFORMATION FOR SEQ ID NO:850:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:850:

GAATTCTAGA	CCTGCCATGG	CTGTGGGCGC	GCTCCCCTCT	GACTGCGTCC	CCTTCTCTCC	60
CTGCATCCCC	TTCTCTCCCT	GCATCCTTCT	GTCTTCTCTGT	GTGCCCTTAT	CTGCCTGGGC	120
CTTCCTGTCT	TCCTGTATCT	TCTCACCTGC	CTGTGTTGTT	TCTAGCTGTG	TCTCTGCCCT	180
TCCCTGTGTC	ATCATGCCCT	TCTGTGCACT	CCTGTCTGAC	TGTGGCCTCT	TGCTTTCTTG	240
TGTCCAGCA	TCCACCTGCG	TCTTCCTATC	TGCACGTCCC	CTCGAG		286

(2) INFORMATION FOR SEQ ID NO:851:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 501 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:851:

GAATTCGGCC	TTCATGGCCT	AATCTCGTTC	TCCATGTCTT	CCGTGTGCTG	GATACACTGG	60
CAGAGCTCAC	AGATGAGAAA	CGCCCCCAGG	GTGGCCTCCT	CGTGGTTGTC	CTGGATGTCC	120
ACATTGACCA	CGTGACACAG	CTGGCAGGTC	TCCTGTTCTC	TGGAATTCAG	ATCTTCCACC	180
ACCTGGTCAT	ACACTCTCTC	TTGCAAGTG	AGGATCAGAT	CAACAGGTC	TTTGAGTTC	240
TGGAATCTTT	CTGGCCGGGG	CTTGATTCTC	TTATTCTGT	CCAGCATATG	TAAAATCCCA	300
TTCTGTGTAT	AGAGTTCTTT	GTCTTCTCTA	AGAAGATCAT	TGTACATCTG	GTCATATGTG	360
GTTTTGAAAT	CATAAACATT	GGGCTTGTCG	GGAGCTGGTC	CTGGAAGCTT	CACGTGAGTC	420
CCTGTTCCAA	AGGATCGGAC	GCTGAATCCC	CGTTTGCTGA	GGATGTTGTG	CGCCTCCATG	480
CTCCGGTTCT	GTTTGCTCGA	G				501

(2) INFORMATION FOR SEQ ID NO:852:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:852:

GAATTCGGCC	TTCATGGCCT	AAGTTGTGCT	GACACCAAAC	ACATCCAGTT	TATAATCAGT	60
ATATTGGAAA	GCTGGTATTG	ATGTAGAACC	AGTGCAATAC	TTTTTATGGG	GTTTGTAT	120
TGGTTTTTTT	TTGTAAAGTG	TGAATAAAAG	GTATGTTTAC	TCATTTTCC	TGAACACTGT	180
GTTGGTAATG	TGCATCATGA	CAATTTCCAG	TGAAGGTGAG	CTGGAGCTGG	TTGGACTAAT	240
GAGACTGAGG	AAGCAGCTTT	TCCTACGATC	TGCATTATGT	AATCACAGGT	CCAGAGAGCT	300
TTATGGAAGC	GGGAGAGGAG	GAGCACTTAC	TCATGTTGTA	TTTGTTAATG	GAGGATGTCA	360
TCTTTTCATA	GATGCTGGAA	CTAGAGTGCA	CTTGTTAGAT	GCTAAAGGTT	TGAGCTTTAC	420
ACAAAATGTC	TTCATCTGTA	TTTGTTATTG	TCTACAATAT	ATTGAATTT	GGGGCAAGTC	480
TCGAG						485

(2) INFORMATION FOR SEQ ID NO:853:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 746 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:853:

```

GAATTCGGCC TTCATGGCCT AGGTGGCTGC ACCATCGGGA TGTCCTGATC CAACATCGAG      60
GTCGTAAACC CTATTGTTGA TATGGACTCT AGAATAGGAT TGCGCTGTTA TCCCTAGGGT      120
AACTTGTTCC GTTGGTCAAG TTATTGGATC AATTGAGTAT AGTAGTTCGC TTTGACTGGT      180
GAAGTCTTAG CATGTACTGC TCGGAGGTTG GGTCTGCTC CGAGGTCGCC CCAACCGAAA      240
TTTTTAATGC AGGTTTGGA GTTTAGGACC TGTTGGTTTG TTAGTACTG TTTGCATTAA      300
TAAATTAAG CTCATAGGG TCTTCTCGTC TTGCTGTGTT ATGCCCCGCC TCTTCACGGG      360
CAGGTCTAGA ATTCAAAAGC AAGCATCTCC GCATCGCATC CTCTTCCATT AACCAGTGGC      420
CGTTGCCAC TCTCTCCCC TCCCTCAGAG ACACCAAAC TCCAAAAACA AGACGCGTAG      480
CAGCACACAC TTCACAAAGC CAAGCCTAGG CCGCCCTGAG CATCCTGGTT CAAACGGGTG      540
CCTGGTCAGA AGGCCAGCCG CCCACTTCCC GTTCTCTCTT TAACTGAGGA GAAGCTGATC      600
CAGTTTCCCG AAACAAAATC CTTTCTCAT TTGGGGAGGG GGGTAATAGT GACATGCAGG      660
CACCTCTTTT AAACAGGCAA AACAGGAAGG GGGAAAAGGT GGGATTTCATG TCGAGGCTAG      720
AGGCATTGGA AACACAAAT CTCGAG                                     746

```

(2) INFORMATION FOR SEQ ID NO:854:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 398 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:854:

```

GCAATTCTAG TGGTAAGGTG TTAATAATTT CACTCTTTTT ATGTAGACGA GAGGTTGAGC      60
CTTGAAGGAT GAGAGGTGTT TACCGTCTTA GGATGGGGTA TAGTAGATAG AACCATATGA      120
ACCGAAGAGC TGAGGAATGT GAGCATGTAA CACCTGACGT GTACAGTAGT AGGTATGAAG      180
TCATATGGGA GCAGTATTTT TTTTCTATT TTGTTCACTG ATTTTCTCC ACTGGTACTT      240
AATAGGCACT CAATAAATAT TTGCTAAAT AAATGAAC TGATGTGTTA AATCCAGTTA      300
GTTTACATTT TGGTTGGTTT TGGTATTGTC TTTTAAAGGT AGCAAAGACC AAGTAATTAA      360
ATTTGTTAGA TGAATATGAG ATAAAATGGG CTCTCGAG                                     398

```

(2) INFORMATION FOR SEQ ID NO:855:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:855:

```

GCCCTTTGCT CCATTTCCAA GGAAAGAAAT TAAACCAAGA TGGTGGCTGG GATTACAGGC      60
ATGAGCCACT GTGACCAGCT CGCAAGATAG AATTTTGAAG AATGTATCTT GAGCCTCTCT      120
TTCTCTTTCT AGTTCTTTAA GATTCAAGAA ATCAAATAAG GTGATAGCCC TGAAGCCCTT      180
ACAGGCAGAG GTGCCCTCGA CTGTGGGTGA GGAGGTATTC ATCCCCAACC AGTGAGATAT      240
TCTGAGTGGG GAGAAGTGTT TTCTATCGAT GACACAGGGT GGGCCCTATG GGAGCAGCAG      300
CATGGCCCCA CCTTCGACCC AATGCTGAGA GGAAAGGGGC CTCAGGAAGG GGAGACTGAA      360
GCCAGCACAC TCGAG                                     375

```

(2) INFORMATION FOR SEQ ID NO:856:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:856:

```

GAATTCGGCC TCATGGCCTA TGAATTTATT TTATTTTACT TATTTATTTA TTTGGTAGAG      60
ACAGGGTCTC ACTATATTAC CCAGGCTGGT CTCTTACCCC TGGCCTCAAG TGATCCTCCT      120
GTCTCTGCAT CCCAGGCCTC CCAAAGTGGT GGGATTACAG GCATGAGCCA CGATGCCTGT      180
CAGCCTTATT GCACTTCACA CACACACACA CACACACACA CACACACACA CACACACACA      240
CACACACTGA TTCAGGCCTT GAGAGTCAAG CCCAAGAGCT CCCTTGGCCC TGTTCCCCAC      300
TCTCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:857:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 564 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:857:

```

GGAGAAATAT GGCTTCAGTT TTTCATTACT TCCTGTAGT TCTGGTCTTT CTGGATACAC      60
ACGCAGCTCA GCCTTTCTGT CTGCCAGGAT GCACTTGCTC AGAGGGAGTT TTNGCAGGAC      120
TCTGCAGTGC ACATCTGTCT CCTTGGGAAA GATCCCTGGG AACCTTTCTG AAGAGTTCAA      180
GCAAGTGAGA ATTNAAAAAT TCNACCNTTA TTTGAGATGC CCCAAGGNTC TTTCATCAAC      240
ATGAGCACCT TGGAATACCT CTGGCTCAAT TTTAACAATA TCAGTGTGAT CCACCTAGGA      300
GCCCTGGAAC ACCTGCCAGA ACTGAGGGAG CTGAGACTGG AGGGGAACAA GCTCTGCTCA      360
GTACCATGGA CAGCGTTCCG TGCCACCCCT CTCCTGAGGG TCTTGGATCT CAAACGCAAC      420
AAGATTGATG CACTCCCTGA GCTGGCTCTT CAATTCTTGG TCAGCCTGAC CTACCTTGAC      480
CTATCCTCCA ATAGGCTTAC AGTTGTATCC AAGAGTGTCT TCCTGAACTG GCCAGCCTAC      540
CAGAAATGCC GCCAGCCACT CGAG

```

(2) INFORMATION FOR SEQ ID NO:858:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 680 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:858:

```

GAATTCGGCC TTCATGGCCT AGGTGGTTTG GAGTCATAAC ACAGAAGTGG TGAGAAGTGA      60
TCAGAGGCGG ATTTCTTGGT GCATTGAATA TGGGATGTGA GATAAGCAGA GGAGTCAGGA      120
TGGCTTCCCG GACTATGGTC CAAACAGTGG AAAGGATGCA GTGGCTGTAA CCTGAAGCAG      180
GAAGTCTGCA GGTGGGACAG AAATGTTTGT TAAGGGAAGT GTTTTCAGAG TTTGGTTTTG      240
GATATGTTAA GTTTGCCAGT GTAAATGGAC ATACTGTGTA GACATTTGGA AATATGAATC      300
TTGGAATAT GAGGTTCTGG GTATGAGCAG AGTCCAAGGA TGAGCCTAGG GATTGGAGAG      360
CTGAAACCAG AAAAAGAAGC TAGAAGGAGA GGCCAGTTAA GACAGTGAAA AGAAGCGAGG      420

```

CATGAGGATC	ACTTGAGGCC	AGTAGCTCAA	CAGCCTGGGC	ATCATAGCGA	GACCCTGTCT	480
CAGCAACAAC	AACAAAACGG	ACAGTGAAGA	GAGTATTGTA	AGGAGAGGGG	AACAGGCAGC	540
GTATTGCTTA	TTGCTGAGGG	GCAAAGTGAA	GACCAAGGAT	AGACTGCTGG	GCTTGACAGC	600
ATGGAGGGTG	CTGGGGGCCCT	AGGCAAGTGC	AATATTCATG	TGGTGTTCATT	GGGCCAAAGG	660
TGTCATTGGA	GGTACTCGAG					680

(2) INFORMATION FOR SEQ ID NO:859:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:859:

GCAAAAGCAA	GTCACGTGGT	CATGCAGGGC	CTCAGTAAGC	AAGAAATATT	TACCCGCCCG	60
GGGATGGACA	GGTAGGAAAG	GGTCTGTAA	GGAAGGGCAG	CAAATATTTG	GATAACAGTA	120
CTATGTGTTT	GTATGGAGCG	ATATTTAAGA	AGGTTTCCTA	GGTTTTTTGA	GGGGTATTGA	180
AGCTGAGAGG	TTGGGGGCAG	GCAGGAAGCT	CTGCAGCCTG	TAGCCTATGG	TATCAAGCTT	240
CATGAGAACG	AGAATTAAC	AGTTACATCT	TTATTACCAT	TTTTGGCATC	TCTGCAGACA	300
GTGGATCTAA	TGCATGATAG	CTGATTAATA	AATGTTTGT	GAATTAATGA	ACAAAATAGC	360
AAGAAACACG	TGTTCTCGAG					380

(2) INFORMATION FOR SEQ ID NO:860:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:860:

GATTTTGAAT	ACACNACNAA	GTTAGAAGAA	TCTTATTACT	TAGATTCCAT	TAATATCTTA	60
CTATGTTTTA	TTACAAATCT	ATGTATCTCT	CTAGCCATCC	TTTAATCCAT	GTTATGTTTT	120
TGATGCTTTG	CAAAGTAAGT	TGCCAATATT	GGTTCATTTT	CCCTGAAATA	CTTAAGCATG	180
CAAATCATGA	ACCAAGTTCC	AATATTTGTG	TGAAATGCAC	AAATAAGTGT	AAATTTGCAG	240
AGTTTGGGCA	TATGCGTATA	CCTATCAAGA	CACGGAGCAT	TAATATCACC	CTGGAAGTCC	300
TCGAG						305

(2) INFORMATION FOR SEQ ID NO:861:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:861:

GAATTCGCC	TTTATGGCCT	AGTGAACAAG	TAAAGACTGA	ATGGGGCTGA	GATGAAGGCA	60
ATGTTTCCAA	GGAAAGGAAA	TGTTATCAGC	AAGAGTGTGA	GGCAAGAGAA	GCTGGAACCA	120

CATTCAGAGA GTATCCTGTA GATTGCTCCA CCTAGAATCT CAGGTGGGTG GAGCAGTGGT	180
GGGAGAAGAC TGGAAAGGTA AGTTGAAGGT AAGGAATGTG TGGTGGGCCT CAGATCCCAG	240
GCTCATTCTT CAAATCACTT CTTACTTCCC TCACTTATCT TTGTTTAAAT AAGGTTAGCA	300
CACTCACTCG AG	312

(2) INFORMATION FOR SEQ ID NO:862:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:862:

GAATTCGGCC TTCATGGCCT AGTGGCGGGC ATCTTGTTGTT TATCTTCTGG AGTGAAATAT	60
GCTTTTCCAG TTGTCTTCGA AGTTTCACCT CTGCTCCATA TTTTCCAGTG GTCCCCTTGT	120
CAGCCAGAAT GAAGTGGGAA TGCATGCTGT TGAGAACAGT GAGCTTGCTC ATGGGATTGG	180
ACATGGTCTG GTATGGCCGG ACAACATCTC TTCCAATGAG GTCCTCCTGG TTTTCCACAA	240
TTCCCCAGGG GGCAATACCT ATGGTGCATA TCTTCTCTCG AG	282

(2) INFORMATION FOR SEQ ID NO:863:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:863:

GAAATTCGGC CAAAGAGGCC TAGGGTGCCT GTGGTTCCGG CTA CTGAGGCA	60
GCACAATTGC TTGAACCTGG GAGGTGGAGG TTGCGGTGAG CCAANATGGT GCCACTGCAC	120
TCCAGCCTGG GTGACAGAGT GAGACTCTGT CTCAAAAAAA AAAAGACCTT CCTTAATAAG	180
TGGAGTTGGA TAGACATTTT GCTTTGGAAA ACAGAAAGCTA TTTACTGTCA ATATTAGGTC	240
TACTTCATTC ATTTACAGA ATAGGCAAAG ATGTCTGGGG CTTTGCTCAC TAGGGAATTC	300
TGGCCATGGC CTTTGTCTT TCTTCTAACC AGGCCTTTTG CTTCTCTTCT CCCTTTTTCG	360
CAGATGTAGA ACCACCAGGC GACTCGAG	388

(2) INFORMATION FOR SEQ ID NO:864:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:864:

GAATTCGGCC AAAGAGGCCT AAAGTTTCTA AAGATTGTAA ATTTAAAAGG AAATGCCAAA	60
TGAATTATTT GTAAAATTGT TAAAAAAT TAATAAATAA TGAGTGCGCC TCGAG	115

(2) INFORMATION FOR SEQ ID NO:865:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:865:

```
GAATTCGGCC AAAGAGGCCT AGATTGAGAA TGCTGACTCG CCTAAAAGCT TTATGCTTAT    60
CATGTCTGTG GTGCTTGGAG CCTGTGGCCC AGGTGATTTG GGGTTTGGGG ACGCCTCATG    120
GGCAGAGACG GCTCGAG                                     137
```

(2) INFORMATION FOR SEQ ID NO:866:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 622 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:866:

```
GAATTCGGCC AAAGTAGGCC TAAATCCGT CCGGNAACTA TGAACAATGG CAGCTACAGC    60
GTANTCAGCT TCAAGGAGCA ATGCAGCAGT TTAACCAGAG ATTCATTTAT GGGGAATCAA    120
GATTTATTG CTACATCACA AAGTAAAGAA TTTGATCCTC TTGGTCCATT GCCACCTGGA    180
TGGGTCAATT AAATGAAAAG CCCTTACCTG AAGGTTGGNT TTNAGATTC ACAGTGGATG    240
GAATTCATA TTTGTGGAC CACAATAGAA GAACTACCAC CTATATNGAT CCCCACACAG    300
GAAAATCTGC CCTGTAAGTT TTCTAAACAT TGTAGATTAA GAGTAAAATA CTAGTCCTTC    360
AGATTTTGAT ATAAAGATTT GTATTAGCAA GGAGTGGGAG TCTTAGTATT TCTTGAGTTA    420
GCTTGACAAT AGGTTTCTGT TCATTAAGTA TTTTGCAATT CCATCTCCCT CTTGGATATT    480
TTATCCTAGA GATTTTCATA TTTGTTACCA TTGTTCACA CAGCACTAAA TGAAACTATT    540
TAGAATTTAT AGGTATTGTA CTGCTTACCA ATTAGTCTCT GATTTCTGAT TTTCAGCTTC    600
TTTCATTCCC TNAACACTCG AG                                     622
```

(2) INFORMATION FOR SEQ ID NO:867:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 453 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:867:

```
GAATTCGGCC AAAGAGGCCT GGCAGGCGTG TTTATTGACT CTTCCAATTA ATTTTAAAGA    60
ACCTGAAGAA ATGGACAAAG ACAGAGAAAA GNCNACCAGA TGTGATTCCG CCCTTCCAGN    120
AAGCAAAGAG CTTATTTTCAT CCCATATGAT CGATGCCAGT CATGGGGANG AGTGGCTGTG    180
TGGAATTAAT GGATTTTCAA CATCCATCAC AGAGGACACA CATGTATATT AGCNAGTCTN    240
AAACCTCTTA AATAAATGCT ATTGCTTTTC ATTTTCACTT CCAGTTATAA AACCAGTGGA    300
TGATGNAAAG GCCATGTGAC NATACAGCAT GTACTCTCAG GNATGTTTGT GTGACAGGGA    360
TATTATATCT GAAGGGACAG GGCAACTGGG AGGGTGAAGT GCTCATAACT CTCAATTGTC    420
CAGGTAATGA AGCATTGGGA AAGCGACCTC GAG                                     453
```

(2) INFORMATION FOR SEQ ID NO:868:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 642 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:868:

```

GAATTCGGCC AAAGAGGCCT ACGAGCACCT CCGCCGCGCG CCTCCTCCGC CGCCGCGGAC      60
TCCGGCAGCT TTATCGCCAG AGTCCCTGAN CTCTCGCTTT CTTTTTAATC CCCTGCATCG      120
GATCACCAGG GTGCCCCACC ATGTCAGACG CAGCCGTAGA CACCAGCTCC GAANTCACCA      180
CCAAGGACTT AAAGGAGAAG AAGGAAGTNG TGAAGAGGC AGAAAATGGA AGAGACGCCC      240
TGCTANCGGG AATGCTAATG AGGAAANTGG GGAGCAGGAG GCTGACAATG AGGTAGACGA      300
AGAAGAGGAA GAAGGTGGG AGGAAGAGGA GGAGGAAGAA GAAGGTGATG GTGAGGAAGA      360
GGATGGAGAT GAAGATGAGG AGCTGAGTCA GCTACGGGCA AGCGGNCAGC TGAAGATGAT      420
GAGGATGATG ATGTCGATAC CANGAGCAGA AGACCGACGA GGATGACTAG ACNGCCAAAA      480
AGGGAAAGTT AACTNAAAAA AAAAAGGCCG CCGTGACCTA TTCACCTCCA CTTCCCGTCT      540
CAGAATCTAA ACGTGGTCAC CTTGAGTAG AGAGGCCCGC CCGCCCACCG TGGGCAGTGC      600
CACCCGCAGA TGACACGCGC TCTCCACCAC CCAACTCTCG AG                                642

```

(2) INFORMATION FOR SEQ ID NO:869:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 347 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:869:

```

GAATTCGGCC AAAGAGGCCT ACTCCTCCTC TTCGGTCTCA CCACAACCCA CCCTATCAAA      60
ATACTGCACC TCCACACAGC CGTTCTCTT TCATTGGGAA AGGCCAGCAC CTGGCCTCTT      120
TCTCTTTGAT GCTTTTGTA ATTGAGTTTT GGGGAGAGCG TTCCTGGTCT TTGTCCATAA      180
CCAGTGAAGA CAAACAGTGT ACTTGGTGTA AGCAGACACT GAAGGTTTGT CTAAGCTGTC      240
AGCCTGTCTT CCAACACCT GTGCCTGTGC TGAGACCTGA TGGTCCAGGA AAGGGCAGCT      300
GCCCACTGT GGATCCCCCG CCACCCACAC ACGCACCCCC CCTCGAG                                347

```

(2) INFORMATION FOR SEQ ID NO:870:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 353 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:870:

```

GAATTCGGCC AAAGAGGCCT ACAGAGAAGC GGGGCGAACT GAGGCGAGTG AAGTGGACTC      60
TGAGGGCTAC CGCTACCGCC ACTGCTGCGG CAGGGGCGTG GAGGGCAGAG GGCCGCGGAG      120
GCCGCAGTTG CAAACATGGC TCAGAGCAGA GACGGCGGAA ACCCGTTTCG CGAGCCCAGC      180
GAGCTTGACA ACCCCTTTCA GGACCCAGCT GTGATCCAGC ACCGACCCAG CCGGCAGTAT      240

```

GCCACGCTTG ACGTCTACAA CCCTTTTGAG ACCCGGGAGC CACCACCAGC CTATGAGCCT 300
CCAGCCCCTG CCCCATTGCC TCCACCCTCA GCTCCCTCCT TGCAGCCCTC GAG 353

(2) INFORMATION FOR SEQ ID NO:871:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 426 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:871:

GAATTCTTAG TTTGTTTTCA ACTGGAAAAT ATATAGAGAA AGATGAAGGG GCATTTTTC 60
CTCTACTCAT CAATTTTGG TACCAAATTT CTAAAAACC AGATGGTTTA AAGAAAATTT 120
TTCCAAAAAT TATGTTAACA TTCTGCTCAG ACATGGCTGC TAAAAAATA GCATATACAC 180
ATATAATACT GAACAGCTTC TGCACTGCCT GTAACTCTC AGCTCATTTT CTCTTTCTAA 240
ANAAAAATA TATTATACT GATCCAGAA CTCAATCTCT ATTGTGCAGC AGTATCAAAG 300
GTCCTTAAAT TCTCAACAAT GAAGGAAAA CAAAAACCA TCCCCGGAC CGCTTGAGCA 360
GGACTAGGGA AGGAGGAGTC CGTGGATGCA AAGGTCGCT GCCCCGACGC CCTCAGANTC 420
CTCGAG 426

(2) INFORMATION FOR SEQ ID NO:872:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 430 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:872:

GAATTCGGCC AAAGAGGCCT AGGGAGGGCT GAGAGGGAGG GAGGGAGGAA GGAAGGAAAA 60
AAGGAACAAA TGCCGCCTGA CCGTCTTTG TGGAATGACT ACACCTATGA TGAGTACCTC 120
CATGGACCAT GCACCTGCCT TGAACAAGG AGGCACAGCA CACAGGGCCC TCAGCTAGAG 180
TGACAGGGAA AGGCGGGTGG ACATGGGGAA GGCTCAAAC CAAGCTTTGA AATCGGGGAA 240
AGCCCCGAAA TCTGAACCAC TCTTGGGCCC ATCCTTCTCT CTCCACATT CACACCTTCG 300
CCTGCGCTCC CATAATTGCA AATTAATTCA TCCACACATT CACACATTCT CTCCCTCCCA 360
CTCTCAANAG GCAGCCCCAA GCCCGGGGGC CTCACGAAGT CTGGGTGGAT GACCAAGCTC 420
CTCCCTCGAG 430

(2) INFORMATION FOR SEQ ID NO:873:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 606 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:873:

GAATTCGGCC AAAGAGGCCT ACGGGCATGG TGGTAGCTCA GGAGTTCAAG GCTACAGTGA 60
ACTATGATTG TGCCACTGCA CCCCAGCTTG GGTGACAGAC AGTGAGACCC TGTCTCTAAG 120

AAATAAATAA AAATAAAAAA TAAGAGGAGC TTTTGAATT CAGCTATTAG GAAGTTACTG	180
GTGCCCATGG AGGGAAGTGT TCCAGGCAAG TGGTGGTGTT AAAGGTNGAG AGAAGAGACA	240
TTAGCTCAGT GCTTCCCAA TAGGATANCC AAGGCGCAA GCTGCANACT GATCTCAGGT	300
GTGGCCCACT GCCTCCCCCT CAGCTGGAAC CCCAGACCAG ACTCCTGCAG TTTCAAGCAG	360
CCTCCTCCTT CTATCCCGGT GTACCTTCCA TATCTCAGTT CCACCACGGG GAACCTCAAA	420
CACTCGACAA CCCATTTCAA AAGCCTGGCT ATGGAAAGAA GAGGAAAGGG AGGAGCCGCA	480
AGTTTGGGAG AAAGTGATT TGGGATGCTG GAGTGGGAGC CTGTTTGTAG GAGCCATAGG	540
GCAGGCTTGA AGATGAATGG GAAAGAAGAT GAGNGGAAGA GGAGGTGAGA CTGAGAGCAT	600
CTCGAG	606

(2) INFORMATION FOR SEQ ID NO:874:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 99 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:874:

GAATTCGGCC TTCATGGCCT ACTGGGGTG AACTATAAA GAAAAGCAAG AAGTGATTAT	60
CATAAAGAA AGGTAATGAT GTTTTTTCCC TTTCTCGAG	99

(2) INFORMATION FOR SEQ ID NO:875:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 73 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:875:

GATGAACAGA TACGATTGTG GGATTTTAT CATCTGTGTA GCAGGTGGTG TATGCATCGG	60
GGTACTCCTC GAG	73

(2) INFORMATION FOR SEQ ID NO:876:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 471 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:876:

GAATTCGGCC TTCATGGCCT ACCAGAAGAT GCCTGCCTTC AATAGATTGT TTCCCCTGGC	60
TTCTCTCGTG CTTATCTACT GGGTCAGTGT CTGCTTCCCT GTGTGTGTGG AAGTGCCCTC	120
GGAGACGGAG CCGTGCANGG CAACCCCATG AAGCTGCGCT GCATCTCCTG CATGAAGAGA	180
GAGGAGGTGG AGGCCACCAC GGTGGTGGAA TGGTTCTACA GGCCCCAGGG CGGTAAAGAT	240
TTCTTTATT ACGAGTATCG GAATGGCCAC CAGGAGGTGG AGAGCCCTT TCAGGGGCGC	300
CTGCAGTGA ATGGCAGCAA GGACCTGCAG GACGTGTCCA TCACTGTGCT CAACGTCAC	360
CTGAACGACT CTGGCCTCTA CACCTGCAAT GTGTCCCGGG AGTTTGAGTT TGAGGCGCAT	420

CGGCCCTTTG TGAAGACGAC GCGGCTGATC CCCCTAAGAG TCGGACTCGA G

471

(2) INFORMATION FOR SEQ ID NO:877:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:877:

GAATTCGGCC	TTCATGGCCT	ACGGAAAAAT	AGTTATATTC	CAGTCTAAGC	CAGAAATCCA	60
GTACGCACCA	CATTGGAGC	AGGAGCCTAC	AAATTTGAGA	GAATCATCTC	TAAGCAAAAT	120
GTCCTATCTG	CAAATGAGAA	ATTCACAAGC	GCACAGGAAT	TTTCTTGAAG	ATGGAGAAAG	180
TGATGGCTTT	TTAAGATGCC	TCTCTCTTAA	CTCTGGGTGG	ATTTTAACTA	CAACTCTTGT	240
CCTCTCGGTG	ATGGTATTGC	TTTGGATTTG	TTGTGCAACT	GTTGCTACAG	CTGTGGAGCA	300
GTATGTTCCC	TCTGAGAAGC	TGAGTATCTA	TGGTGAATG	GAGTTTATGA	ATGAACAAAA	360
GCTAAACACA	TATCCAGCTT	CTTCTCTTGT	GTTTGTTAGA	TCTAAAACTG	AAGATCATGA	420
AGAAGCAGGG	CCTCTACCTA	CAAAGTGAA	TCTCGAG			457

(2) INFORMATION FOR SEQ ID NO:878:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 553 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:878:

GAATTCGGCC	TTCANGGCCT	AATAACATCT	CCCCAGACCC	AGAAAAACAG	AAAGCTCCAC	60
AGAAATTAAA	TGTTGAAGAG	AAACTCTCAA	AGGAAGTTAC	AGAAGAAAAC	TATCTCTTTC	120
CCAGTAAGTT	CAGTGGAAG	TGCACAGAA	CATGAATATG	ACTNGGTGAA	TTAGATGAAA	180
GTTTTTATGG	ACCAGAAAAG	GCCACAACAT	ATTATCTCAT	CCAGAGACCC	AAAGCCAAAA	240
CTCAGCTGAC	AGGAATGTTT	CAAAGGACAC	AAAGAGAGAT	GTGGACTCAA	AGTCACCGGG	300
GATGCCTTTA	TTTGAAGCAG	AGGAAGGAGT	TCTATCACGA	ACCCAGATAT	TTCCTACCAC	360
TATTAAAGTC	ATTGATCCAG	AATTTCTGGA	GGAGCCACCT	GCACTTGCAT	TTTTATATAA	420
GGATCTGTAT	GAAGAAGCAG	TTGGAGAGAA	AAAGAAGGAA	GAGGAGACAG	CTTCTGAAGG	480
TGACAGTGTG	AATTCTGAGG	CATCATTTCC	CAGCAGAAAT	TCTGACACTG	ATGATGGAAC	540
AGGAATGCTC	GAG					553

(2) INFORMATION FOR SEQ ID NO:879:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:879:

GAATTCGGCC TTCATGGCCT AGGTTCTTAG GCTCTGAGAT ACTTCCTGCT TCCCTCACA

60

ACATGCTTAT GTTGGTGTG CATGCACATT TGCCTATCAG CACATATAAA GAGACAGTGG 120
 AAAAGTCAGA AGTGTTTTCA GGTATTTC CGATTGAATT CTAGACCTGC CTCGAG 176

(2) INFORMATION FOR SEQ ID NO:880:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:880:

GAATTCGGNC TTCATGGCCT ACTTCCTCTT CCTCCTCTTC CTCTTCCCCT TCCTGGTGCA 60
 GGTACATGAC ATTCCGCACG TTCCGGACGG CCCGGGCAGT CGGAGACAGG ATCACTGTGT 120
 CACAACGTGTC ATCACTGTCC CCCTCACTGT CCAAAATGTA GTCCCGGGA ACATGATTCC 180
 ACAGCCCATG ATGTCCCCTT TGTAACAGCG TGGCCCAAAG GGTCCCCAC ACCACCTTCC 240
 TGCCTCATG CTCCGGCTCT ATCTCTTCCC CATCCTCTTC CTCTTCTCT TCCTCCTCTT 300
 CCTTCTCCC TTCACTCGAG 320

(2) INFORMATION FOR SEQ ID NO:881:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:881:

GAATTCGGCC TTCATGGCNT AATCTGTAAC ATGAGGGAAT AAACAGTAT TATCTAAGCA 60
 TTCTCTAGAC TTAAATATG ATTCTAGAC CACTGAGGAG ATTAAAAATG AGGTGAGAGG 120
 GATTTCAAAA TGAAGCGACC TGCCAGACAT GGTGGCTCAC AGCTGTCATC CCAACATTTT 180
 GAGAGACTGA GGCAGGGGA TCGATTGAGC CCAGGAGTTC AAGACCAGCC TGGACAACAT 240
 CGCAAGACCC TGTCTCTACA AAATAAAAAA AATGTAAAAA TAGCTAGGTG TGGTGGCACA 300
 CACCTATAGT CCCAGCTACT CGAG 324

(2) INFORMATION FOR SEQ ID NO:882:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:882:

GAATTCGGCC TTCATGGCCT ACAGAAATTG AGAGTAAACA GAAACATTTA TAGGTCAATT 60
 GCTATTGATT ACGAACGTCT AAGTGCAATT CAGTGTTTTA TATTTTACAA ATGTGTTGGA 120
 ATTTACTTT ACTTATTCTT TTGAGACAGG TTCTCGCACT CCAGCCTAGG CAACAGAGTG 180
 AGACTCCGTC CCAATCAGTC AATCAATCAA TCAATCAATA CCACAGCGGA GAAAATCTTT 240
 ACAACTTTTG GTTAGGTAAT GATTCTTAG GTAGGACACA CAAAACACTC GAG 293

(2) INFORMATION FOR SEQ ID NO:883:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:883:

```

GAATTCGGGC CTTCATGGCC TACCTACGGA GTGCTTCTTT CTCACCCTGC ATGCTCACCA    60
CCTCTCTATT CTGCCTAGTT GCCGTCGCTA TATCCGCAGA CTCGGGGCTA TCCGGGAGCT    120
CAATAGGTAT GTGCCATGAT ACCGTGTCCT GGGATTGCCT GAGTTACCAC TTTTCTCAG    180
GGGCAGGCAA TTCCATTGTG AACAGTAGTT TTGAATGTG GGGGAGGTAT GTACGTATA    240
TAGTGTTTCT GTCTGCCTCC ACCGCCACAT CCATGTTGCT CAGTTGTCCA GAGTCTTTA    300
CCTGGTGAAG TGATCCAAAC CTTGATTCTT GAGAGTTCTG AACCCCTCGA G          351

```

(2) INFORMATION FOR SEQ ID NO:884:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 454 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:884:

```

GAATTCGGCC TTCATGGCCT ACCTGGTGTT TTTTGT TTTT GTTTTACCC CTGTCTTAT    60
GCCAGTGAGT TCCTTCGGGG TTA CTCTGC AGTAGGTGGA CTATCATCTG GGACAGTTGG    120
GGAAGCTTCG ACAGCCCTGA GTTCAGCAGC CCAGGTAGCT TTGCAGTCTC TCTCTCATGC    180
AATGGCTTCA GCCGAGCAAC AGCTACAGGT GCTGCAAGAG AAACAGCAGC AGCTTTTGAA    240
GCTTCAGCAA CAGAAAGCAA AGCTGGAAGC CAAGTTACAT CAGACAACAG CTGCAGCAGC    300
TGCAGCAGCA TCAGCAGTAG GTCCTGTTCA CAACTCTGTG CCTTCCAACC CAGTGGCTGC    360
CCCTGGATTG TTCATTATC CATCTGATGT TATTCACCC ACTCCAAAA CAACACCTCT    420
TTTTATGACT CCACCACTCA CCCAGCCCT CGAG          454

```

(2) INFORMATION FOR SEQ ID NO:885:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:885:

```

GAATTCGGCC TTCATGGCCT AGACGAATTT CAAGTATTTA TTACCTCTGT TGAATATAAT    60
TTATTGAAGT GTAAGCTTAT ATATAATTCA ACTTTAAAAA ATGGCCTGAG TTGAACAACC    120
AGCTCACCAC AATTCTATAA TCTAGGAGTT GGCTCTCGTG GGTCGGCACA GGTGAGCTAG    180
GGTGCCTGGT CCTGGTGGAG GGCAGGAGGC CCCCTTCCCC TGGCCTCCCT AGCCAGTCCC    240
CACACACAGC CCCAGTGGCC TCCACAGCTC CACCCTCCTT TCATGGCCGT TCTTTTCTT    300
AGATGCCAAA AGCAGAAAGC TCGAG          325

```

(2) INFORMATION FOR SEQ ID NO:886:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:886:

GAATTCGGCC TTCATGGCCT AGGGAGAATT ATTTGATATT TGTTGATACT TGACAGCAGA	60
TAATTTTTTA ACTGCAAGAC CACTAGAGGT CACCAGCGTA AAACTTTCAA CTTTGATTCT	120
GCTGGTAGTG AACTGAAAAG TTCAACTACT ATTCTGCAAT GTTTCCTTTG TTTCTTTTTT	180
TTTCTTTTTT TTGTTTGTAG ATGGAGTGTT GCTCTGTCAC CCAGGCTCGA G	231

(2) INFORMATION FOR SEQ ID NO:887:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:887:

GAATTCGGCC TTCATGGCCT AGTTGCAGAA GAAAAAAAAG AAAATCCATC CCTGCCACTC	60
ACAAGCTGCT ACCTACAGCA GATTACTATC CTAAGCCTCA ATTTTGCCAT CTGAAAAAAA	120
CAGAAAAAAC AGTTAATAAT ACCTCACCAG GTTCTTGCTA ATTCTTTAGT AACACAGAGG	180
AATCTTTTAG CCCTTCTTTT TTGTCTTAT AGCTTAAACC ATGCTGCAGG AAATGTATCA	240
ATCCAAGATA AAAGAGCTGA AATCCAAGAA CCTCCCCCTC ACATTTTGTT TGTTTGTGTTG	300
TTTTGTGTTT TTTTGTGTTAG ACACAGGATC TTGCTCTGTC ACCCAGGCTC TCGAG	355

(2) INFORMATION FOR SEQ ID NO:888:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:888:

GAATTCGGCC TTCATGGCCT AGCCACCACG CCCAGCCTCA ATTGCATTTC TACACACAAG	60
GAATAATCCA AAAAGGAAAT TAAGGAAACA ATTCATTTA CAGTAGCATC AATATGAATA	120
AAATATTTAG AAATAAACTT AACCACTGAT GTACAGTGAC AGTATGTACA CTGAAAGCTA	180
CAAAACATCA CTAACATAAA TGAAGACAAA TTAGACATCC TGTGTTAATA CATTGGAAGG	240
CTCTTAAGCT GTCAATACTA AAGGTGATCT ACAAATTCAG TGCAATCCCT GTCAAAATCC	300
CAATGATGTT TTTTGAAGAA ATAGAAAAAC TCATCTGGGA ATTCATACGG AATCTCGAG	359

(2) INFORMATION FOR SEQ ID NO:889:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:889:

GAATTCGGCC TTCATGGCCT ACTAAATTGG AATAAAAGTT TTAATAATAC TAACTTGTCT	60
TTTTTTTTTT TCTAAAATTG ATTCATTGCT TACTGTAAAT AGTATAAATC TTAAAAGGGT	120
GAATTTTTTG GATGAAATTA ATGCTTATTC TTTTCTTTTT AAACAGGGCA ATAAATGTGT	180
TCGTAAGTGC CAACCACTC GAG	203

(2) INFORMATION FOR SEQ ID NO:890:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 376 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:890:

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGGCC TTCATGGCCT AGTTGATTGG	60
TTTTCTTAGG TCAGCAATGA GTCTTAAAGA TAAATTTCT ACTGTGTAAT CTTTAGTGTT	120
TTCTTTTTTT TTTCAACTAT CTTTAAATCA GTTTCAAACA TTTCAGTGAT TAAAAGAGAG	180
ATTTGTTGTG GTTTGTTGT GGAGCAGAAA TGGATTTCAA GGAGTTTACC TTCAGAGCTT	240
TTGTTTTTGT TACGGTGGGT CTCTCTAGTG GAAAAAAAT TTCCCATCC CTTTGGAAT	300
ATTTTCTTTA AAGGAAATCA TGTTTTTAAA ACAAATTATC GAAATCAGCT TTCTAATCAA	360
TTGAATCAT CTCGAG	376

(2) INFORMATION FOR SEQ ID NO:891:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 335 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:891:

GAATTCGGCC TTCATGGCCT ACGCTTGTC GTGGCTTCTC TGAGAAGAAA AGTTGAAAAA	60
GGGTAAAAGT TTTCAGGAAT ATTCGGGCTC TCTATTGCTA AGCATAGCGA GTGTCGGTTT	120
TCTCTCTCCA ACAGACATCG CTATTGCGGT TCCGAGGCAG TGGGAAGAGA TGCGGCCCTT	180
GGACATCGTC GAGCTGGCGG AACCGGAGGA AGTGGAGGTG CTGGAGCCCG AGGAGGATTT	240
CGAGCAGTTT CTGCTCCCGG TCATCAACGA GATGCCGCGA GGACATCGCG TCGCTGACGC	300
GCGAGCACGG GCGGGCGTAC CCACGGACCC TCGAG	335

(2) INFORMATION FOR SEQ ID NO:892:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 288 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:892:

GAATTCGGCC	TTCATGGCCT	AGTATCTTTA	AAGTTAATGT	CTAGCCAAGA	GTTAGTAAA	60
CGAAGAATTA	AACTGCACTG	TTGATCGGTG	CTTTGTGTAA	ATACATCTTT	AACATTTGGG	120
TGGAGAGGGG	CCTTAAGAAG	GACAGTTCAT	TGTAGGAAAG	CAATTCTGTA	CATGAGTTTA	180
AGCATTCTTG	TTGCATTGTC	TCTGCAGATT	CTATTTTGT	TTACAATATT	GAAATGTATG	240
TTAGCAAAAT	GGGTGGATTT	TCAAATAAAA	TGCAGCTTCC	CACTCGAG		288

(2) INFORMATION FOR SEQ ID NO:893:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 493 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:893:

GAATTCGGCC	TTCATGGCCT	ACTCATCGCT	AGTCCATATT	TGGCCTCCTT	TTAAGCAGTT	60
AATTAACAGG	TATTTTATA	GCATAATGGG	TTTCCTCAAA	CCACCACCCA	ACCAAACCC	120
AGCCCTTGAT	GATGACCTGC	GCCCACCACG	CAGGGCGCCC	TTGATGCACA	CGCACCTGCC	180
GCCCCCGCCC	TGTGACCACC	GCCCTGAGTG	CCGGGCTCAT	CATCCCTTCC	ATGCCCTTTC	240
TACATTGCTA	CTAAGAATCT	GTGTGTATTC	ATTAAGACCA	TTACTTTTCT	TTCAGATTTT	300
AAATTTATTA	AAGGCTTTAG	TGCTGAATGT	GATTTTGAGG	ACTCTTTTAA	AAAAATACTT	360
TTGGTTGGAA	TGTGGACATT	TCCCACTTAG	CATTGTGTTG	CTCATGTTCC	TCCATATTGA	420
TGTGTGTTTA	GCTAGASTAC	CCCCGTCTAA	CTCTGCGAAT	ATGCCACACT	GTGTGCACCT	480
GCATACACTC	GAG					493

(2) INFORMATION FOR SEQ ID NO:894:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:894:

GAATTCGGCC	TTCATGGCCT	AAAAAAAGGA	AATAGAATCC	TATAATTTAC	CATGAAAATA	60
TTATGAAAGA	TACAGGTCAG	CATGTATTGT	AGGAGCAAAC	TTAGTGGTCC	TGCTGGTCTT	120
TTGGGTTTCAT	TGGTTTGTGG	TTAAGTTTCA	AGTAAGTTCC	CTCTGGTCT	GGTGTGTTCT	180
GCTGCTGGTG	AGCTCCAGCA	GCTCAAACCA	GCTCTCTCCC	ATTAGTAAGC	CATGCTAAGT	240
TTAGTTTAAC	ACCCATAGTA	GGCCTAAAAG	CAGCCACCAA	TTAAGAAAGC	GTTCAAGCTC	300
AACACCCACA	TACTCGAG					318

(2) INFORMATION FOR SEQ ID NO:895:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:895:

```
GAATTCGGCC TTCATGGCCT ACATTGAGTC AGTCACCAGG TGTTTTTTTT TGGTTTTGTT    60
TTATTTTGTG TTGTTTCTGT TTTGCACCTG CAGTATCTCG GCAGGTCAGA CTGTCATGCC    120
GTGCAGGTGC CAGCCCTCTC TCTGCTGTTT TTGCTCTTGT TGCTCTCAGA GCCAAGAGCC    180
ACTCTGCACC CAGAGGGCCT CCCATCCACA CCAGCCTGCC CTTTACTCAG CTCTCACTTT    240
CGTCATCACC TGTGGGATCC TGTCTGCAGA ACCCCCTCAA AACTCTTTC TTCACGGTGC    300
AGCTCCACCC ATCCTCGAG                                     319
```

(2) INFORMATION FOR SEQ ID NO:896:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:896:

```
GAATTCGGCC TTCATGGCCT AAGACAGGGA GGCAGACACA TTGAGAAATA ATACAAATTA    60
TTATCATCTT CATAAATAAT ATAGACAGCT CTGACGATAA AGGTGTGTAC CAGATATGAC    120
AGGAGCAGAG CTGAGGCATC CAGCACCTTC AGGGATGAGG GGTAATGGTG TTAGGAAAGG    180
TTTTCTGTAC TTCTCTACG TGGGTGCTTT TCTCCATCTC TACTTTCAA TCCCACCCAT    240
GCTAAGGCCT TATCCAAATG ACCACTGCCA GAAAG                                     275
```

(2) INFORMATION FOR SEQ ID NO:897:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:897:

```
CTCGAGTTCC CCCATCAGTC TATGTGCCCC ATGAGAGCAG GCACACATAG GAACAGGTCA    60
GTCAGTTCCT GATGCCCAGC ACAAGGCCAG GCACAGAGTG GCAGGGGAGT TGTGGGGCCC    120
CACAGACCAG AGGCCAGCGC CAATTCTGCC CCTGCTATTT GCATGCCCTC ACCTCTGTGG    180
GCCCCTGTCT GTCTGCGAGG ATTCAGGGAG TAAGTCCTGG AGCACAGCGC GGGTTGGAGC    240
ATGCAGAACT GCCAGGTGCT ATCAGCACCA TCATTCTTTC CACTCCCTAC TCCCTTTAGG    300
CCATGAAGGC CGAATTC                                     317
```

(2) INFORMATION FOR SEQ ID NO:898:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:898:

GAATTCGGCC	TTCATGGCCT	ATGACCTGGA	AGAGTGGTGC	GAAAGAGAGG	AAGGGGCAGA	60
GGCCAGGAGT	GTCAATGCAAT	TGCTGTGCCT	CCTCACGGAA	TTATTGAGTG	TGTCCCCTGT	120
GTCATAGACC	CATCACAGTT	GTCTCTTCCA	GTAATTCGTG	AGCTCCCTAA	GGGCAGGGAC	180
TGTGTATACT	TCTGGGCGCT	AAAATGAGTG	TGAATCCATG	TCAGGCACTC	TGTGCCAGTC	240
TTTATTGGAA	ATATATGATT	TTATCTTAAA	TAGTTCTTCA	ATGTAGGTAC	TATCACTTGC	300
CCTGACTTTA	GAGATACAGG	CACTAAGGTT	TGTGGAGGTA	AATAACTTTC	CCAAGATCCT	360
CGAG						364

(2) INFORMATION FOR SEQ ID NO:899:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:899:

GAATTCGGCC	TTCATGGCCT	AGGTGTTTAT	GGATATCCTC	CAGATTATTA	TGGATATGAA	60
GATTATTATG	ATTATTATGG	TTATGATTAC	CATAACTATC	GTGGTGGATA	TGAAGATCCA	120
TACTATGGTT	ATGAAGATTT	TCAAGTTGGA	GCTAGAGGAA	GGGGTGGTAG	AGGAGCAAGG	180
GGTGCTGCTC	CATCCAGAGG	TCGTGGGGCT	GCTCCTCCCC	GCGGTAGAGC	CGGTTATTCA	240
CAGAGAGGAG	GTCTGGATC	AGCAAGAGGC	GTTCCGAGGTG	CGAGAGGAGG	TGTCCAACAA	300
ACTCGAG						307

(2) INFORMATION FOR SEQ ID NO:900:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 478 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:900:

GAATTCGGCC	TTCATGGCCT	AATTTCCATC	ANGAANTCNG	TGAGGTTCTC	AGATGTGGCA	60
ATGTCCACGC	AGTTTCGCAC	CANGGCATGG	CGGTTCTTGT	CTCCCATTTT	TGGCTGTCCC	120
AGGTAGCGCA	GATGCCAGGG	TGCCCCTGCC	CTGTCCATAG	AGCGTCGGGC	CCTGAGAACA	180
AATGGGCTGG	CTTGCTGGNC	CTTAAGGAGG	AATACCATCT	CATGGTCAAG	GAAAGTCTCA	240
GGTTCCATGT	TGTCACACAA	ACCACGAAGG	CGGTGGATGA	GGCTTTCCAA	ACTGTGATCT	300
AAAACACTTC	CCTGCAACAG	GTACTCCATC	ATGTTAATGG	TGCCCCCAGT	GACAGGGATC	360
ATGGTGA CTG	GAGGTGCCTC	CATGGTGTCT	AAGTTGAAGA	CAACACA ACT	GGACTCAGAG	420
CCCCCAGTCA	GGTAAGG CAC	GGGATATA CC	TCCTTGAGGC	TGTAGTGTCT	TCCTCGAG	478

(2) INFORMATION FOR SEQ ID NO:901:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:901:

GTACCAGGCG	NATCCTGAAG	AGACACTACT	ACNACCAAAT	GGAACCCAG	AAGAAATAAA	60
ATGTTTGGAT	CNAATAAAGA	AAATTGAAAC	NACTGGTTGC	NACCNAGAAA	TAACATCATT	120
TGAAATTAAT	CTGAAGGAAA	AAAAGTACCA	GGAGGACTTT	AACCCGCTGG	TGAGAGGATG	180
TTCTGTGTAC	TGCTGTAAGA	ATCACACTCG	GGCATACTC	CACCATCTGC	TGGTGACCAA	240
TGAGCTGCTG	GCCGGAGTCC	TGCTTATGAT	GCACAACCTT	GAACACTACT	TTGGGTTTTT	300
CCATTACATC	CGGGAAGCAC	TAAAAAGTGA	CAAACTGGCA	CAGTTGAAAG	AGCTCATCCA	360
CAGGCAAGCA	TCTTGAGATC	TTGCAAATAC	AAGTCTCACT	CTTCACACTG	AGCCTGTACC	420
ACTGTTGTAA	CATGGGAAGA	CGTGAAGAAG	AAATAATCTG	AGCTCGAG		468

(2) INFORMATION FOR SEQ ID NO:902:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 570 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:902:

GAATTCGGCC	TTCATGGNCT	AGCCAGGGAT	AAAAATACAA	TCTTCAAAGC	GGTCAGAGAA	60
AAAAATGCAA	TTATGAACAG	AGGCATCAAG	GTAACAATAA	CAGCCGAATT	CTGGTCAGAG	120
ACAAATGCAA	CCACACATGA	GCAGAGCGGN	CCCTTTAAAG	AACTCAAAGG	AAAGAAAAAG	180
TGAATCGACC	TGGAGCTCAG	AGCCAGATAA	AATATCTTGA	AAATATGAAA	GTAAAAAATA	240
GAGAAGAGGA	GCTCATGAGG	GGAGAGGGAC	TAGTGTAAGG	AAAGGTGTGT	AGGTGGGAAA	300
AGGNCCAGTG	TGTTTCAGCA	TAGATAAGAA	AAGNAGACCA	CGCNAAAAGG	TAGACGAACA	360
GGCAAGGTTG	GTCATCAGGT	GAAAAGACAG	GTTAGTGGAC	GATCAAAGAG	GNTCTTGACT	420
GCCGTGCTAC	AATAAACTAC	ATATTTTTTT	TTCAGGCAAA	GTAAGGATTT	CAGAGATGAT	480
TTTTAACATG	GGATGATATA	ATGCACAGTA	TTTGTAGAAAT	ATTGTTCTAA	ATCAAGAGTG	540
GGAACCCAC	TGCGGAGACA	AATTCTCGAG				570

(2) INFORMATION FOR SEQ ID NO:903:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:903:

GAATTCGGCT	TCATGGCCTA	CTCCCATCAA	ACTCCAGAGA	AGAGAGTGAA	TACTGGAGAA	60
GAAAGGAGGA	AAATATCTGA	GGAAGCAGCA	AGAAAGAGAA	GGCTGGAATT	TATTGAAAAA	120
GAAAAGAAAC	AAAAGGATCA	GATTATTAGT	TTAATGAAGG	CTGAACAAAT	GAAAAGGCAA	180
GAAAAGGAAA	GTTGGAAAG	AATAAATAGG	GCCAGGGAAC	AAGGATGGAG	AAATGTGCTA	240
AGTGCTGGTG	GAAGTGGTGA	AGTAAAGGCT	CCTTTTCTGG	GCAGTGGAGG	GACTATAGCT	300
CCATCATCTT	TTTCTTCTCG	AG				322

(2) INFORMATION FOR SEQ ID NO:904:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:904:

GAATTCGGCC	TTCATGGCCT	AAATGTATGT	AAGGTACAGA	GAGGATGTCT	GGAGGTGCGC	60
CCTGTGGATA	TCTTAAGCCT	TTAAGGGTGA	GCAAAAAACA	ATAGGTTCAC	AAAGGAAAAT	120
GAGAATGGGC	TATGAGAAAG	GTAAGAGGAA	AACCAAGGAA	AGAGAACGTT	TTGAGACAGT	180
AGTAGTGGTC	AGCAATGTCA	AATTGCTGCA	GAAATTTTCT	AAGAGTGAAA	TTGGGTTTAG	240
CAGCTGCAAG	AGGAGTTCAT	TTAATTGGTG	TAGCAGAAGC	CCATTAGATT	GCAGTGTGAT	300
GAGAAATTAT	TGGGAACAAG	GATACTCGAG				330

(2) INFORMATION FOR SEQ ID NO:905:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:905:

GAATTCGGCC	TTCATGGCCT	AGATGCCGCC	ATCTACCAGG	CCTCTGCCCC	AGAACAGCAA	60
GGGCATTGTG	TCCTGCTCAG	GGGTCTTGGA	GGTGGGCACC	ATGACTGAGT	ACAAGATCCA	120
CCAGCGCTGG	TTGCCNAGT	TGAAGCGCAA	GGCTGCGGCA	AAGCTGCGCG	AGATCGAGCA	180
GAGCTGGAAG	CACGAGAAGG	CGGTGCCTGG	GGAGGTCGAC	ACTCTGCGCA	AGCTCAGCCC	240
CGACCGCTTC	CAGCGAAAGC	GGCGATTGAG	CGGGGCTCAA	GCGCCGGGCC	CCTCGGTCCC	300
TACCAGGGAG	CCTGAGGGTG	GGACCCTGGC	GGCTTGGCAG	GAGGCAGAGA	CTGAGACTGC	360
TCAGCACTCA	GGTTTGGGCC	TGATCAACAG	TTTTGCTTCT	GGAGAAGTGA	CCACCAACGG	420
GGAGGCTGCC	CCCGAGAATG	GCGAGGCTCG	AG			452

(2) INFORMATION FOR SEQ ID NO:906:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 518 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:906:

GAATTCGGCC	TTCATGGCCT	AGCCATGGAT	TTAAAGAAAT	TGTGACTAAA	CCAATGTTTT	60
AGCATTGATA	AATGGGAAAT	TGCGGAAGGA	TGTAAACGTA	GAGTTTAACT	CTACAACTTG	120
GCTTAGGGAC	TCAGGTATGG	ACAGTGAGAA	TAACTTGGTT	TAGGGACTCA	GATATGGACA	180
GTGAGACTGG	CCACATGAGT	GCCTTTCTCA	CTGTCACT	CTTACCCAGG	TTGGAGTGCA	240
GTGGCTGTGC	ACAGGTGTGA	TCATAGCTCC	CTGCAGCCTT	GAATTCCTGG	GCTCAAGCAG	300
TCCTGCCTCA	GCCTCCCAAG	GAGGTGGGAC	TAAAGATGGT	GTGCCACCAC	ACCTGGCTAA	360
TTTTTAAATT	TATTGTAGAG	AAGGGGTCTT	GCTATGTTGC	CCAGGTGGT	CTGAACCCC	420
TGACCTCCAG	GGATCTCTCC	TGCCTTGGCC	TCCTCAGGAG	CTGGAACCTAC	AGATATATGC	480
TAATGTCTTC	AATTTATGGA	AATGCAGAAA	TGCTCGAG			518

(2) INFORMATION FOR SEQ ID NO:907:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:907:

GAATTCGGCC	TTCATGGCCT	ACTTGCTGCT	GCGCTTTGAC	ATCAGCTTGA	AGAAGAATAC	60
CCACACCTAC	TTCTACACCA	GCTTTGCAGC	CTACATCTTC	GGCCTGGGCC	TTACCATCTT	120
CATCATGCAC	ATCTTCAAGC	ATGCTCAGCC	TGCCCTCCTA	TACCTGGTCC	CCGCCTGCAT	180
CGGTTTTCCT	GTCCTGGTGG	CGCTGGCCAA	GGGAGAAGTG	ACAGAGATGT	TCAGCTACGA	240
GTCTTCGGCG	GAAATCCTGC	CTCATACCCC	GAGGCTCACC	CACTTCCCCA	CAGTCTCGGG	300
CTCCCCAGCC	AGCCTGGCCG	ACTCCATGCA	GCAGAAGCTA	GCTGGCCCTC	GCCGCCGGCG	360
CCCGCAGAAT	CCCAGCGGTC	TCGAG				385

(2) INFORMATION FOR SEQ ID NO:908:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 630 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:908:

GAATTCGGCC	TTCATGGCCT	ACCCCTGTCC	ACTTTGGTCA	CTGTTGGCTG	GGGCCCCGTGG	60
AGCTGTCCAG	AGGGGACCGG	GGCCAGTAGA	GTAGAGGACA	GTATTTGTAG	AGCAGGCATT	120
TCTTCTGAGG	TTCCTTGGGA	TCCCTGAGC	TATGAAAGCT	GGAAGCAGTT	GAAAGTTTTC	180
AGGGAGAGGG	ATGCTGGAGT	CTCAGAACTT	TAGAGGTGCT	GCAGGAGTCA	GTTCTGGCAG	240
TGAGAGAAC	CTTGGGCGGG	TTTCACACAC	ACACAGCACT	TGAGCCATTC	TTGGGCAGAA	300
GGGGCCTCAC	TTCCAAGCAC	AAGGAGTGT	AACGAAAAAT	TATTAACATG	GTAAGGAAGA	360
CTTTATTTCAG	GGCCATTGCA	GTAGGCATCC	CAATAGTGGG	GAGAGATGGG	GCTCAATTCC	420
AAGTACAAGA	AGAACAAGTG	GGCACTTAGC	CAAGGAGCAG	GTGGGAGGGG	GTCAGAGGAT	480
AGAAAATTAC	TAAGAGGAGA	CGTCAAGGTT	AGGGGGATT	TTGCTGAAGT	CAGGCCAAGG	540
AGCAGGTGGG	AGGGGGTCAG	AGGATGGAAA	ATTACTAAGA	GGAGACGTCA	AGGTTAGGGG	600
GATTCTTGCT	GAAGTCAGGC	CTTGCTCGAG				630

(2) INFORMATION FOR SEQ ID NO:909:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 678 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:909:

GAATTCGGCC	TTCATGGCCT	AGACGGTGAT	GTTTTTGGTA	AACAGGCGGG	GTAAGATTG	60
CCGAGTTCCT	TTTACTTTTT	TTAACCTTTC	CTTATGAGCA	TGCCTGTGTT	GGGTTGACAG	120
TGAGGGTAAT	AATGACTTGT	TGGTTGATTG	TAGATATTGG	GCTGTTAATT	GTCAGTTCAG	180
TGTTTTAATC	TGACGCAGGC	TTATGCGGAG	GAGAATGTTT	TCATGTTACT	TATACTAACA	240
TTAGTTCTTC	TATAGGGTGA	TAGATTGGTC	CAATTGGGTG	TGAGGAGTTC	AGTTATATGT	300
TTGGGATTTT	TTGAGGGGTG	TAGGGATGCG	AGCTCTGGAG	GGGACCCTCC	TTTCAGGACA	360
GCGCCCTGGC	CCCCAGTGCC	CCACTCACCT	TCCTGGGCGG	GAACCTCAAG	TGCAGCCAGG	420
CTGGGGGACA	GAGTTCCCCC	CAAGCTGAGA	CAGGAGGGGT	CTCAGGCGGC	AAAATTCCTC	480

CTCCAACCTCC TGGTGGGGTG GGGGTCATGG ATGAGGGGGG CCCCTTCCTT CCCCAGCCCCA	540
CTCAGGGCAC CCCTGGCCCG TCCCGCCCCA CCTCCAGCTG CTTCATGGTC TCCTCCAAGC	600
TGAGCAGGTT CTCCTGGATT TCCTGGGTCC GTGCTGGGCT CAGGGGGCCG CCCCTGGGA	660
CCCCATCCCC ATCTCGAG	678

(2) INFORMATION FOR SEQ ID NO:910:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 634 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:910:

GAATTCGGCC TTCATGGCCT AAGAAGAGGA GGAAGAAGAC GGGGCTGCAG TTGCTGAGAA	60
ATCACATCGA AGAGCTGAAA TGTCAGCGCA CCCAATTCT AGACAACGCT CAGCCAACGG	120
ATTCTTTTCA AGCTGCTCAA ACATAAATCT GCCTACTGAA CTCTAGGATA TTTAATTACA	180
AAAATTAAGA ACTTAGACTT TTTTAAACT TTTGTATTAG AAATGCGCAT ACATTTATAT	240
GAATATATTT TGATAACGTA GGTCTAGAGC TTCTTTTATA TTCAAGCTTA ACATGANAAA	300
GAAGAAAAAC AATAAAGTAA ACCTGAGCCC CCACGTCCCA ATTTTTTAAAT AGATTATGTG	360
ATGTTGGAAA GCTCATTGAT TTTGTATATG TTTCAGCGTG TTACCTTTCT GGCTTCCAGT	420
TCCCAGGTGT TCTTTGTTT CTTTGATAA AATACAGGAT TTAAGAACAG AGAGTACTGC	480
AAAATGCCAT GCAGACTTTA AAGAGAATGG CTTGTTTACT AATTGCTGCC CTTCTGATGT	540
CTTTATGTAT AGCTCTGATA GAATTTTCAC CAGTCTATGT ATCTCTGGAG TGAGATCCTA	600
TGTACAAAGT GACATACAAT TGGAAATCCT CGAG	634

(2) INFORMATION FOR SEQ ID NO:911:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:911:

CTCGACCTTC ATGGCCTAAT GAGCTGTTTT GTAAACGAGA TTTGTTTTGT GGGAAAGGGA	60
ATTTTGTTTC AAGACTTCCC TAAGAACTG ATAGCATCGG GTAATTCTTA AATTTGACTT	120
ATCATAATGG TATATCTGGA AGGAATTGT CAACTGATAT GTTATAATTA TTTTTTAATT	180
TTTTTTAATT TTTGAGATAG GTCTTACTCT CTGCCCAGA CTGGAGTGCA GTGGTGTGAT	240
CATGGTTTAC AGCAGCCTCA AACTCCTGGG CTCAAGAGAT CCTCCACCT CAGTCTCCTG	300
AGTAGCTGGG ACTAAAGGCA TGTGCCACCA TGCTGGCTA GTTAATTTTT TTTTTTTTTT	360
TTAAGTAGAG ATGAAGTCTT GCTGTGTTGT CCAAGCTGGT CTCACACTCC TGAGCTTGAG	420
CAACCCTCCT CTAGCCATG AAGGCCGAAT TC	452

(2) INFORMATION FOR SEQ ID NO:912:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 503 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:912:

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GAATTCGGCC TTCATGGCCT AGCGGGCTAT GTGGCTGATT GAAGAGTATG CAATGAGCGA      60
TTTTAGGTCT GTTGTGCGTA GGCAGATGGA GCTTGTATA ATTATGCCTC ATAGGGATAG      120
TACAAGGAAG GGGTAGGCTA TGTGTTTTGT CAGGGGGTTG AGTTTGATGA GTTTAGGCAG      180
GGCCTGGATC ACCTCTTTCT TCTCCAGCCC ATTGAGCACC GGGATGAGGA AGCGGACGTC      240
TGGCAGTCGC TTGTGGTAGA GATCCCGGAC CCGCTTCACC AGCTCTGGGG AGGGTGGGAC      300
TTTGTCTGTG AGGCTGTGCA GACATCTCGT GACCAGTGTC TCTGCTCCCT TGGGACAATT      360
TTCCACCAGC AGGAGCAGCT CCGGGGAGTT CATGCCATT CCTCGGATCG GCTGCTCAAT      420
GACCCTCAGC ACCGTCCGCT TGATGTCGGC GATGGCTTCA GTGTACACGG CCGCCAGTTC      480
GTGGATCAGC TTGTGGGCTC GAG                                          503

```

(2) INFORMATION FOR SEQ ID NO:913:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:913:

```

GAATTCGGCC TTCATGGCCT AAAAGATATT ATTTTAAATT AATTTGAAC TATAGAAAAG      60
TAGTACAAAT AATCAGAAA ACTCCCATAT TTACTTTACA TGGATTCACC AATTTTAAAC      120
ATTTTGCTAC ATTTGTTTGC TTCTCTCGCT GTCTCTACAC ACACATACAC ACACAAATTT      180
TTGGGAGGTC TAGTGACGT CCCGGCCGGC CCAGGAGGAC AGGAAAACAT CACTCAGGAA      240
GTCATCCTTG GCCCGAGCC GCTTTGTCCT GTCCTTCTGC AGGAGGCCCT CCAGGAGGTG      300
TCTTGCAGAA TTTGTAATAT TTGGTTTCAT CTCGAG                                          336

```

(2) INFORMATION FOR SEQ ID NO:914:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:914:

```

GAATTCGGCC TTCATGGCCT AGACAGTCAA TGTGGATGAG AACTAATCGC TGATCGTCAG      60
ATCAAATAAA GTTATAAAAT TGCAAAAAAA AAAAAAAAAA AAGAAGTGAG GATGACAGGA      120
GAAGGTAGAT GGTGCAACAT GAGGGTGCTT TCTACCAACA AGGTGTGCAG CATTGGACAC      180
GCATGACCAC GTGACCTGCA GCTCTGATGG TGCAACATGA GGGTATGTCC TACCAACAAG      240
GTGTGCAGCA TTGGACATAC TTGACCACGT GACCTGCGGC TCTGAAGGTC CCACCTGTTC      300
TCGTCTCTAA GTCACCATTT CTGACCGCTG TGCTGTGGAA GGGGAGGCAA TCAACCAGAA      360
CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:915:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:915:

GAATTCGGCC	TTCATGGCCT	AGGCAACAAG	AGCCCTGAAG	TGCTCCGGGC	ATTGATGTA	60
CCAGACGCAG	AGGCACGAGA	GCATCCCACG	GTGGTACCCA	GTCATAAATC	ACCTGTTTTG	120
GATACAAAGC	CCAAGGAGAC	AGGTGGAATC	CTGGGGGAAG	GCACACCGAA	AGAAAGCAGT	180
ACTGAAAGCA	GCCAGTCGGC	CAAGCCTGTC	TCTGGCCAAG	ACACATCAGG	GAATACAGAA	240
GGTTACCCCG	CAGCGGAAAA	GGCCAGCTC	AAGTCTGAAG	CCGCAGGCAG	CCCAGACCAA	300
GGCAGCACAT	ACAGCCCCGC	AAGAGGTGTG	GCTGGACCAC	GTGGACAGGA	TCCGGTCAGC	360
AGCCCCCTGTG	GCTAGAGGAA	CACCACTCGA	G			391

(2) INFORMATION FOR SEQ ID NO:916:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:916:

GAATTCGGCC	TTCATGGCCT	ACGGGTGTTT	GAGGAGTACA	TGCGGGTTAT	TAGCCAGCGG	60
TACCCAGACA	TCCGATTGA	AGGAGAGAAT	TACCTCCCTC	AACCAATATA	TAGACACATA	120
GCATCTTTCC	TGTCAGTCTT	CAAAC TAGTA	TTAATAGGCT	TAATAATTGT	TGGCAAGGAT	180
CCTTTTGCTT	TCITTGGCAT	GCAAGCTCCT	AGCATCTGGC	AGTGGGGCCA	AGAAAATAAG	240
GTTTATGCAT	GTATGATGGT	TTTCTTCTTG	AGCAACATGA	TTGAGAACCA	GTGTATGTCA	300
ACAGGTGCA	TTGAGATAAC	TTTAAATGAT	GTACCTGTGT	GGTCTAAGCT	GGAATCTGGT	360
CACCTTCCAT	CCACACTCGA	G				381

(2) INFORMATION FOR SEQ ID NO:917:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 621 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:917:

AGATGGACTG	GCTTCAGCTG	GTTTTGGAGG	TGCTTGTTT	TGGAANAAAT	GCAGGGATGG	60
CAGANGCCTG	GCTCTGCAGC	CAGGANCCAC	TGGTGCGCAG	CGCTGAGCTG	GGTTGCACGG	120
TCGACGAAGT	TGAGAGCCTC	ATCAAGCGGC	ACGAGGCCTT	CCAGAAGTCA	GCAGTGGCCT	180
GGGAGGAGCG	ATTCTGTGCG	CTGAGAAAGC	TTACTGCGCT	AGAGGAGCGG	GAGAAGGAGC	240
GAAAGAGAAA	GAGGGAGGAG	GAGGAGCGGC	GGAAACAGCC	GCTTGCTCCC	GAACCCACAG	300
CCAGTGTGCC	TCCAGGGGAC	TTGGTGGGCG	GCCAGACAGC	TTCTGACACC	ACCTGGGACG	360
GAACCCAGCC	ACGGCCACCA	CCATCCACAC	AAGCACCCAG	TGTTAATGGA	GTCTGCACAG	420
ATGGAGAGCC	CTCACAGCCC	CTGCTGGGAC	AACAGAGACT	TGAGCACAGC	AGCTTCCCCG	480
AAGGGCCGGG	ACCTGGCTCA	GGGGACGAAG	CCAATGGGCC	CCGGGGAGAG	AGGCAGACCC	540
GGACTCGGGG	CCCGGCCCCA	TCTGCAATGC	CCCAGAGCAG	GTCTACCGAG	TCAGCCCATG	600
CTGCCACCCT	GCCGCCTCGA	G				621

(2) INFORMATION FOR SEQ ID NO:918:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 547 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:918:

```

GAATTCGGCC TTCATGGCCT AACATGGGTG ACACGGATGT CTATAGTGTC CACCACATTG      60
TCTGGCATGT GGAGGAAGGA GGCCCAGCCC AGGAGGCAGG ACTCTGTGCT GGGGACCTCA      120
TCACCCACGT GAATGGGGAG CCTGTGCATG GCATGGTGCA TCCTGAGGTC GTGGAGCTGA      180
TCCTTAAGAG TGGCAACAAG GTAGCAGTGA CCACAACGCC CTTCGAAAAT ACCTCTATCC      240
GCATTGGTCC CGCAAGGCGC AGCAGCTACA AGGCTAAAAT GGCTCGGAGG AACAAGCCAC      300
CCTCCGCCAA GGAGGGCCAG GAGAGCAAGA AGCGCAGCTC CCTCTCCGG AAGATCACGA      360
AGCAGTCGAA CCTGTGTCAT ACTAGCCGCT CGCTGTCGTC GCTGAACCGC TCGCTGTCAT      420
CCAGCGATAG TCTCCCGGGC TCGCCTACGC ACGGGCTGCC GGCGCGCTCG CCCACGCACA      480
GCTACCGCTC CACGCCTGAC TCCGCCTACC TAGGCGCCTC ATCCCAGAGC AGCTCCCCAG      540
CCTCGAG                                     547

```

(2) INFORMATION FOR SEQ ID NO:919:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 610 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:919:

```

GAATTCGGCC TTCATGGCCT ANACACTCTT CCTCTTCTCC TTTTTCCTTT AGAGATATGA      60
ATCAGGTTCT TGATGCCTAT GAAAATAAGA AGCCATTTTA TCTGTACACG GGCCGGGGCC      120
CCTCTTCTGA AGCAATGCAT GTAGGTCACC TCATTCCATT TATTTTCACA AAGTAAGTAT      180
NGGATCTTAT GGCTTTTCTT ACTCTCTTAG TGAATTGAGA ATGTTGCTTA TAAACCATGT      240
TTAGAACTGA CAAGATCATG CTAGTTCATT TGCTGAGCAA CCAAGATGTC AAGAGTTGGC      300
ACTTTTTTGG CTTCCATTCA CTTGTTCCT GGGCTCACTT TAGAGGACCA TGGAGTGATG      360
GGGAGAGCGC AGCTTTGGAG TCAGCCAGGC CTGTCCTCT TCTCATCCTG CTCCCTGTCT      420
GCATGGCCAT GGGCCTGCTA CTTCTCTGAG CCTAAGTTTC CACATCTGCA AGATGAGAAT      480
GAAGATACCT ACCTCATAGA ACTACTGTAA AGCTTCAAAA CAAAGTGTGT AGAGCAGCTA      540
ACACAGAGCA CACAGGCCCA CTGGTTCGAT AAATGGTAGT AGACCTTATC ATTATCCATA      600
GTCCCTCGAG                                     610

```

(2) INFORMATION FOR SEQ ID NO:920:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:920:

```

GAATTCGGCC TTCATGGCCT ACTAACTCTC CTTCTCAAAA CACCAAAAGT AAATTTTAAT      60
ACCCAAAACG AAATTCATTT TGTTAATCAC AGCTTAGAAG GTTTCATATG ATCTGGCCAA      120
ATCTGTATCT TGCATCACTC TTATCACTCC CCCTCTCTGC TCACTGTATC TGCATGATAG      180

```

GAATCAGCTC ATCTTCCTAT ACATCAGTAC TAAAACAACC TCACTCCTAC CTGAGGCCCT	240
GTGTGCTGTC TGTAGATGGT CCATCTTCTC ACTTCACTCA GGACTCAAAT GTCCCTCTT	300
CACTCGAG	308

(2) INFORMATION FOR SEQ ID NO:921:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:921:

GCAACCGGGT TTTGCCAGGG CCTATTGCAC CAGAGAGCAG CAAGAAGCGG GCCCGTAGGA	60
TGCGACCAGA CCTTTCTAAG ATGATGGCCC TCATGCAGGG TGGAAGCACT GGGTCTCTAT	120
CTCTGCATAA CACGTTCCAA CACAGCAGTA GTGGCCTACA GTCTGTGTCA TCTTTGGGTC	180
ACAGCAGTGC CACTTCTGCA TCTTGCCTT TTATGCCATT TGTGATGGGT GGTGCACCAT	240
CATCCCTCA TGTAGACTCC AGCACCATGC TTCATCACCA CCACCACCTC GAG	293

(2) INFORMATION FOR SEQ ID NO:922:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 492 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:922:

GAATTCGGCC TTCATGGCCT AGTGGGGCCT GTTTATAGTT GACTGACAGT AAGTTCTATA	60
TGGTATATAA CACTAATCT CTAGTCTTCT GGGCATATCT ACGAACAAAT ACAATCCAAA	120
TATTATGAGT AACTGGGTTG TGACCACTGC ATGCATTACA CTGAAAGAAA CACCAACTCG	180
AAGCACAAT ATATTATTAT TATATTTCCG CTCAGCTCTC AGTGGGGAGA GCAGCTACCT	240
CGGACCACAA TGCCATTTAA ACCAGATTCT TTTCAAATAA AATTCTCAAT CTAAGTGGAA	300
AGCCCCCTCA GAGAATGCCT TATCCCCCTA CTAAGCAATC CAGGCTTGTA TAAAACGTCT	360
GATAAGCCT GTAGTGCCCA TTGAGTATGA GTCTGCTGTT TACATTCTGC ACAGGCCAGG	420
AGGGGAACAG AAGGTGTGAG CCACAGGTGC TCCTGGGTCT GACCAGCAAG TCTAACCCAT	480
GAAGATCTCG AG	492

(2) INFORMATION FOR SEQ ID NO:923:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 650 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:923:

AAATAACCAC AAATATNAAG AAATTATAAT CAGGGCAACA GATTAAAATG AAAAGGGGTA	60
TAGAAAGATA TATTTTAGAT AATATAAACT CCTGACAAGC TATGCCCTAG AATTGCAGCC	120
TCCAAACCTT GCCCANGATT TCCACCTTTC CATAGCCTCA CTTCAAGTTC AAATGGAAAT	180

GAAAAACAAAA TAAAGTGAAC AGGTGGTTGA GCCAGCCNAA GCCTCCCAAG TTATGTTAGG	240
TGGACAGTAA GACCAGGTGG ACAGCATTTG AGAAACTGGC TGGACACAGG GGAGCTGCTA	300
CTGGTAGTTA TATTAAATTT GGAGGAATTT CCAGCCCACT GATAAAGAGA GAAACCAAGG	360
AACCAATGA CTTTCTAGT AACATATAAT ATATGAGATG AAATATAATT CTGTTAGAGA	420
GGACATGGTG GTGAGATGGG AAAGAAAAGA GAAGAGAAAC AGGCAGACTT CGGGCACCAT	480
CTCCCTTTGT TTTCTACAAT GCATTGGTTT CCTTCTGTTG CGGAGCATTG TTTAGGATTA	540
GCTACAGACC CCAATGTCCT CTGAGTAAAT ATATGTCAGC TCAGCTCCTG ACATGATATC	600
CATGCTTATT GGCCTCCTGG AGGGCTGGGT GGTTCCTCAGG GTCCCTCGAG	650

(2) INFORMATION FOR SEQ ID NO:924:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 527 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:924:

TGAGCTGCGC TAAACTCCAC CGTGACCTCA AACTCTTTGG ACTGTTTGAA AAAAAAAAAA	60
NTNGGAAGAA ANTCCATCCT CCAANANAAT CGGCTTAGGA GGAGATGGAA CTTTNCCTCT	120
TTCTCTNGGT TTNGTCCGTC TGGTGGTCTC GAACCTGGGA TTCGGCGAAT GCGGATTGCA	180
TCATTCACAT CGGAGCAATT TTTGATGAAT CTGCCAAAAA GGATGATGAG GTATTTTCGCA	240
CTGCCGTTGG TGACCTTAAC CAGAATGAGG AGATCTTACA GACTGAGAAA ATCACATTTT	300
CAGTGACGTT TGTGATGGC AACCAACCCTT TCCAAGCAGT TCAAGAAGCC TGTGAACCTA	360
TGAATCAAGG CATCTTGGCC CTGGTCAGCT CCATTGGCTG CACGTCAGCA GGATCCCTCC	420
AGTCTTTGGC AGACGCCATG CATATCCCCC ACCTCTTCAT TCAGCGCTCA ACAGCTGGGA	480
CCCCAAGGAG TGGCTGTGGA CTCACCCGGA GCAACAGGAA TCTCGAG	527

(2) INFORMATION FOR SEQ ID NO:925:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:925:

GATTCCGCCCT TCATGGCCTA GAACTTTCTA CTTGGACAAC TAACACCCAC AGTCCTCCAG	60
ACAGAAAGAC AACAGGTACA AAGCCCTAAG GATTATAAAG GTATGCTGCT TACCATCATC	120
TTAGTGACCA AGGCAGCGAA GCTGTTTCTG TACCTTGGA CAGTCTTCCC TGACAAGCCA	180
GAGAACAGTG ATAAAGCCAC CAGCCTTGGG ATCAGGACTG AAAAGGCAAG AGTGATGGAG	240
ATTTCTCCTG CGCTAAGCCA AGAGAAGGTT TCAGCACTTC AGACAGCTCC CACCGAAGTA	300
GCCGATCTCG AG	312

(2) INFORMATION FOR SEQ ID NO:926:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:926:

GAATTCGGCC	TTCATGGCCT	AAGATGTTTG	TCTTTATCCA	GTAAGGTGTT	TGTATGCTCC	60
TTAAGTGGCA	GCGGGGAGTG	AGCAGAGCAG	TGAAGATAAA	CATGAAAGCT	GGTGGTAACA	120
AATCCTGATA	CCTCCTCTAT	TCCAAAAGGA	AAGGCAGAAC	TCAGAGGCAC	CATCCTCCTG	180
TTGTGTTTGC	AAGCTGTTGA	CACAACCTGG	AAAGGTTAAA	AGTTTCAAC	AGACTTGTCA	240
GAGTTTGTGT	TCAATGGAAA	CTGACAGAGC	CTACCGGCTG	AGGGGCTAAT	TTTAATAGAA	300
ATAACCTAGG	TGCGCGCTCG	AG				322

(2) INFORMATION FOR SEQ ID NO:927:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:927:

GAATTCGGCC	TTCATGGCCT	AGTGGAACCTA	GACTGCCAGC	TGTGAGCCTC	AGAGCTCCTG	60
GCTGCCTGTT	GCTGAGTCTA	TCAGCTGCTG	AGCCTTTCTC	ACCNNAAAAA	AAAAAAAAAA	120
AAAAAAAAAAN	TGNGCTTAAT	AAAATAACCC	TGCACAGAAA	TTTTCTGAAA	TTAAGATAAC	180
ATTCAATGGA	AAACAGAATT	TAATCTACAG	AAATACACTT	CACAGATGTT	TTAGGAACAG	240
AACCTAGAGA	AAATGAAAGT	CAAAATTTAA	TAAAAGAATT	TGTCAGGAAC	TTCAAGGTAA	300
AGACTCCATG	TATTTTGTGG	CAACTATAAA	ACACTAAGAA	GGCTTTTAA	ATATTAAAAA	360
GCCATTAA	CACTTCAAAT	TAAGATTCTT	CAATATACTT	CAGATTCTG	TACTGAGTTA	420
CCCTCTCGAG						430

(2) INFORMATION FOR SEQ ID NO:928:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 498 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:928:

GAATTCGGCC	TCATGGCCTA	CGTTAGTGTG	TGGATAGTAT	GTGTGTGTCC	GCACTCATGA	60
TAACTTGAAA	CCAGACATAG	GGTTCATTTT	TGAAAGGTTA	AACCACACTG	TTTCAGGAAC	120
TTGCTCCAAA	TACTACTTGG	TTATCCCTTC	CTTTACCAGT	TAGAACTAAA	GAGTGTGATG	180
TATGAACACA	CTGGGTTGGG	ATTTTCTGTT	GAGGATATGC	AGGGCATTTT	GGCATGAGGC	240
AAATACAGAA	GCAAGATTTC	ATTCTACTTG	GTGATTTGAA	TCATGACAGT	CCTCATTCCA	300
ATCTCTCTTT	AATTCTCTCT	GGCCCTGCC	ACACTCTGTA	TTTGAAAATC	TGTTTTTGC	360
TCTTTCCGGA	GCTTCACCCC	TCTACTTACA	TATTGTAAAG	TTGTATAAAT	CTATCATTGA	420
AAGGTCCTCT	CTGCCAGCAG	TGGTGCCACC	CTTTGGTTTG	CTGTGGTACT	TTGCTGTGTA	480
CTCCGTGGCA	TACTCGAG					498

(2) INFORMATION FOR SEQ ID NO:929:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 566 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:929:

```

GAATTCGGCC TTCATGGCCT AGTTAAGGGC ATTTACTCAT GTTGAACCTA GTTTTATTTA    60
CAGTATATTT GTATGCATAG AAGATGGAGG TCCACCAAAG TGTTAATTAT GCTTAGTTGT    120
AGGTCAGGTA TAGCTAACTT TCCTTTTTTA ATATATATAT TTACATTGTG GTTTCCTTTA    180
TAATTTATGG CATAGATTGC CACGATTTTC TTAAGTATAC TTTTATAATC AGAAAAATGA    240
TATTAAGGAC TCATTTTAAG TACACTAAAT CAAATATTAG AAGGCTTCTT TATTTTAAGC    300
TAATGTGAG GATTATTTGT CATTTAAAC TTTTGCTTCT ACTTATTACC CTGAAGTATC    360
TTTGGGTGC TTATGTTTTT CACAGACTGT ATAAATTGAT ATACTCTCCC GCCCCATGGT    420
AATGTTGCTA CACATAAGCT CTAATAATTA TCATTTTAA TGTTTAAAGA TTAATTCAAC    480
TAAGTTTAA AAATAATCCA TTGGTTACAT ACATAAGAAA GTACTGTATA CAGATTCCCC    540
TGACTTATAA TGGTTCGACT CTCGAG                                     566

```

(2) INFORMATION FOR SEQ ID NO:930:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 506 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:930:

```

GTGATATGAC ACTGACAGAA TTCAAGTTCA TCTGGTACAT GGAGTACTCA CACCGAATGT    60
GGGGTCGCCT TGTAGGCCTT GTGAACATCC TGCCTGCTGC CTACTTTTGG AGAAAGGGCT    120
GGCTCAGCCG TGGCATGAAA GGACGTGTTC TTGCCCTCTG TGGCCTCGTC TGCTTCCAGG    180
GTCTGTTGGG ATGGTATATG GTGAAAAGTG GACTAGAAGA AAAATCAGAC TCCCATGACA    240
TCCCTCGGGT CAGTCAGTAC CGCCTTGCTG CCCACCTGGG ATCAGCCCTG GTTCTTTATT    300
GTGCCAGCTT GTGGACCTCA CTGTCAGTGC TACTCCCTCC GCACAAGTTG CCTGAAACCC    360
ACCAACTCCT ACAGTTGAGA CGATTGCTC ATGGAACAGC AGGTCTGGTG TTCCTTACGG    420
CCCTCTCAGG GGCTTTTGTG GCAGGGCTAG ATGCTGGGCT TGTTTATAAC TCCTTTCCCA    480
AAATGGGAGA ATCCGGATCC CTCGAG                                     506

```

(2) INFORMATION FOR SEQ ID NO:931:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:931:

```

GGGAAATTAG AAAGGGAGGG CCTGAGTTGG TTGCTATTCC TGAAAGTTTC TTTGAATGGA    60
ATACTGGATC ATCGTTTTTG AAGAGGTCTG TTGTTACTTC ATTATTACCT CCTTTAGCAG    120
CACCCTTGTT TTCCTCCAAC CTCTGCCAAG ATTAGTGTCC TGTGTCTACA TTTGCCCCCTT    180
CTGTTTCTCA TACTCCCAGA TGGAAATATT ATATTTCTTA GGACTTTTCG CTCTATTTGA    240
ATTAGTATTT TCTACTCGAA ACACCCTCGA G                                     271

```

(2) INFORMATION FOR SEQ ID NO:932:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:932:

```
GAATTCGGCC TTCATGGCCT ACATTACTT TGTTACACA GGGCACTACT TTGATTCTA    60
TTAGTGCTGT TTGTGATTGT GTATGTCTTT CACTTGAAAT CCACCATGAA GGTGAAAATT    120
TGTTTGAACC GTGGCACTAT ATGGCAGTGC AGTGTAGTCA GTTGTGTTTG TAGTCCGGAT    180
TATCAGAGCT TGAATTCTGG TTCTGCTGCT CACTAGCTTC TTCTGCACA CTGTTTCAGT    240
GTA CTCAGCC TCACCTTTTA TTTTATTTCT ACAGAGTCCC ATTTGGTGTG TAAGCTGGTC    300
TCGAG                                305
```

(2) INFORMATION FOR SEQ ID NO:933:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:933:

```
GCGGTGGCAC GATCTCGGCT CACTGCAACC TCCACCTTCG TTCAAGCGTC CACCATGCCT    60
AGCTAATTTT TTTGTATTTT TGGTAGAGTC AGGAGTTCGA GACCAGCCTG GGCAACATGG    120
CAAAACCCCA TCTCTACTAA AAATACAAAA TGTACTCAGG CGTGGTGGTG CCCGCCCTGTG    180
ATGCCAGCTA CTCAGAGGC TGAGGTGGGG ATCACCTGAG CCCAGTATGT CGAGGCTGCG    240
GTGAGCCATG ATTGCGCCAT TGCACTCCAT CCGGGTGAGA CTGAGACCCC GTCTCCAAAA    300
AAAAAAAAAA AAAGAAAGTG AAATAATTTG TGGACAACAC AGAATTACAA ACTTTTTATT    360
TTGTCTTTT AAAGTTACCA CAAATTGTCA CCACCATTCT CTGAAAGGAC ATTAACACCT    420
GAATATATTT AGTTTCATGA AAATTTCACT TTAACACTC GAG                                463
```

(2) INFORMATION FOR SEQ ID NO:934:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:934:

```
GAGCATCCTG GGGAGCACCC ATTTCTGGG AACAACTGA CCCTTTTGCG TCCTTAAAAA    60
AAGTCGGCCA AGATTCCATA GTGCTGCTGA TCTGCATTAC AGTGTTTCTC TCCTACCTAC    120
CGGAGGCAGG CCAATATGCC AGCTTTTTT TATACCTCAG ACAGATAATG AAATTTTCAC    180
CAGAAAGTGT TGCAGCGTTT ATAGCAGTCC TTGGCATTCT TTCCATTATT GCACAGACCA    240
TAGTCTTGAG TTTACTTATG AGGTCAATTG GAAATAAGAA CACACTCGAG                290
```

(2) INFORMATION FOR SEQ ID NO:935:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:935:

```
GAATTCGGCC TTCATGGCCT AGTTTGGCCC GGCAGCCTCT CAGGTTGGAC TTCTCAGGAT    60
TTGCCATTG TTTTAATCCC TGAGACCACA CAGTTGATGT TTAGAGCCTG CCCTGCATGT    120
GATCGTTCCA GTGGAGGATA CAGCATGGGG TCTGGCCTCC AGCAGGGTCC TCCCCAGGCC    180
ACCCCTGGGT GCCGGGAGGG CAGCCCCTTG GCCTGAGGCC CACTATGACC TGCCCCCTGC    240
AGCTGCACCG TGATGGTGGC TTGCCTTTGT GGCTCCCTGG GCTCTGGTGG CCTCGAG     297
```

(2) INFORMATION FOR SEQ ID NO:936:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:936:

```
GTTTAATGAA GAGTAGTCAG TCTTCTAGAT TGTTCTTATA CCACCTCTCA ACCATTACTC    60
ACACTTCCAG CGCCCAGGTC CAAGTCTGAG CCTGACCTCC CCTTGGGGAC CTAGCCTGGA    120
GTCAGGACAA ATGGATCGGG CTGCAGAGGG TTAGAAGCGA GGGCACCAGC AGTTGTGGGT    180
GGGGAGCAAG GGAAGAGAGA AACTCTTCAG CGAATCCTTC TAGTACTAGT TGAGAGTTTG    240
ACTGTGAATT AATTTTATGC CATAAAGAC CAACCCAGTT CTGTTTGACT ATGTAGCATC    300
TTGAAAAGAA AAATTATAAT AAAGCCCCAA ACTCGAG     337
```

(2) INFORMATION FOR SEQ ID NO:937:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:937:

```
GAATTCGGCC TTCATGGCCT ACATAGTTAT TCAGATTTAG GACCAGTAAG GATAGAACTT    60
TCTCTTATTT ATGAAAAAAA ATGCTAATAA TTTTGGGGCA GTTTTTTCN TTAATTATTT    120
TTTTCAATTT CAAGTTTAAT TTTATTTTAG CTGATCTGAT GTGGTTTCAA CTAACCCAAG    180
GTCTCACCAT GTTAAAANGC CGGCGGACTC TACGGCGTTT TGATAGATCCC CCCCCCCCAC    240
CCACTGTGAA GGGGTGCCAT ACTACCTTAA ATGCTAATGC TAGATATGCA ACCCTCGAG    299
```

(2) INFORMATION FOR SEQ ID NO:938:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 403 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:938:

CTCGAGTGGT	GTGTCATTAT	AGCGGACAAA	GGTCACGATC	ACAAAGGTGG	TGGCGATGAT	60
TCCCAATATT	GCAACAAACA	CAGGCACCAC	AGCCCAGGGA	GAATGCCACT	CCAATTTGAT	120
GATGGGGGATA	AGCTGGCAGC	CTGTGCGGTT	CATGTTGGGT	CTCTGATCCA	GAGGGCAAAG	180
TTCACAGGAC	AGCTCATCCA	CCTGGTAGTT	GTAACCTTCA	CAGCGTTCAC	AGTGCCAGCA	240
GCAAGGGGACC	CCTTTCACCG	TTTTCTTCCT	CTCCCCTGGC	TTACACGGCA	GGCTGCAGAC	300
AGACGCCGGG	TGAGTATGTT	CTCTATGAGC	CCACTGCATG	TCTTCCACTT	TTAGATGAAG	360
CTGATTGGTC	CAGTGGCCGA	TGACTTTGTA	CTCTGTGCTT	TTC		403

(2) INFORMATION FOR SEQ ID NO:939:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:939:

GAATTCGGCC	TTCATGGCCT	AATTCTTTTC	TGTCCTTCAC	ATGCATGTCA	CAGTTCATCT	60
CACATTTCTG	TGTAGAGGGC	TCCATTTCTC	TGCATATGGC	ATTACCATTG	TGCCTGATGT	120
ATTCCAATTC	AGATAAACAT	AAGCTCCTTT	CTCGTGCTTT	CCCTGAGACC	CCTGGGTGGG	180
ACTTCTCTAA	TGTTCTCATA	ATATCTATGC	ATCTCTCTAT	GATTATACCA	TGTTATACTC	240
TGTGTGGCCT	TAGGCTTTGT	GAGGAGAGGT	TCAGAGTAGG	TTTTGCTCTA	GAGTGTGGTC	300
CTTACTCCTA	AGGTGACCCC	TTTCNGGTGT	CTCTGCTGGT	GTATGGCATT	AATGTGATTG	360
CTTCACTCTC	GAG					373

(2) INFORMATION FOR SEQ ID NO:940:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:940:

GCAAGCTCTA	ACCTAAATCA	CAGAGACATG	CATGTTTCAT	GCATTAAACAC	TGATTTGCTG	60
CTGTGGCCCA	CCAGAGGGGT	GGGCTCATGT	CCCCTGACTC	CTCACATGAG	TGCCTCAGCT	120
CTAAGNCCCG	TGGAACGGGG	GGTAGGGAAG	GTTTGCGATC	TGGAGCTCAG	CAACTGGCTC	180
AGCAACGTTT	TCTCCATTTC	ATTAGCACTA	AACAAGTTTC	TGCTCTCAG	GAATTTGTCA	240
GAAAAAGAA	TAACATCACC	TGAGACTCCA	CATACCAGAT	TATAAACTCT	TTCTCGAG	298

(2) INFORMATION FOR SEQ ID NO:941:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:941:

GAATTCGGCC TTCATGGCCT AGGTTTCCGG ACGTTGGGA CACGCGTTTC CATCCTGGCT	60
CACCTGAAGCC TCGATCTCCC AGGCTTTCTT TGACGGTGTT CCCTCAAAGA AAGAGGCCCA	120
AAGCCCTCCC CCGCAAAAAA AGCCAGAAAG GAATGGAGGT GCCTCCGCAG AAATCCAGAG	180
CATCTGCAAG ACATCCTCGA ATTCTAGACC TGCCTCGAG	219

(2) INFORMATION FOR SEQ ID NO:942:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 572 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:942:

GAATTCGGCC TTCATGGCCT AAGCAAGATG GGTCTGAGGA TACCTGTGAG AAGTAATTCA	60
ACACATCTTT CACACATGGG CCAATTTGCT GGTCTAAGTT AAATNGGAGT GACAAGGACA	120
GCTGCTTAAA GAGTGAGTTC TAAAGCCCCA GGAATTAGGT GATGTCTTGA GCTGGGGTGA	180
AGCAAGNCAA GTGGGATGGG GAAGAGATGG CTGGNTTCTG CNGGAGTGAG TTTAAGGGAG	240
GAAGGCAGGG TTGCCCCGCA GCCCGCATGT TCCAGAAGAG CCCACGAGAG ATGTCTGTCC	300
CACAGGGCTT ATAGCACNTN GCANTCCNTC AAAGGGCGGT GTCTCATGTC CCNTCTGTTA	360
GGCTCTGGGT GGGCTTTTGT GACAGCTTTG ATAATGTTCT GGAAGAGATG CTGCTGGGCT	420
TCTGGGCTCC CGCGACCCCT TAGAGAAAGT GGTGCAGCTT CTCATTGGCT CTGTCTCTCT	480
CCGAACACGC CCCTTTTGA GCCCTCTGGA AAGGAAGACA CTGAGCAACC AAATAACATA	540
TTTTGACACT AATTTCCTGA GACCGTCTCG AG	572

(2) INFORMATION FOR SEQ ID NO:943:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 412 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:943:

GAATTCGGCC AAAGAGGCCT AAGGAAATGT GTGTCTCTAA AACAGATTG GATTTTATTT	60
ATTTGGGACA TATAAAGAG GAAGGAAGAG TTGATAAAGA TTCTTATTTG ACTCTTCAAA	120
GTCACGTGTC ACCAGAAATT CAGAGAATCA ACATACAAAT TACAATGGTA GTTTGTTTTT	180
TGGAAGGCCA GTGAAATACA GTCCTTAAAT TTATAATGAA ATTTACTTTC TAACAAATTA	240
AGTCTTTCTA ATGAGACCAA CATTGAGAAT TCAGCCCTTA CCTCGGGATG GTCTGAGAAA	300
ACCAAAGGC CAACTGTTTT ATTGCTTTAG ATCAGTTAGG TGATGATAAC TATGAGCATT	360
TATAATAATA TTTTAAATTG GCCCTGAGAG GCTTGAAGAC ATAGAAGTCT AG	412

(2) INFORMATION FOR SEQ ID NO:944:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 521 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:944:

GAATTCGGCC	AAAGAGGCCT	ACAAAAA	AAAAA	NNACTTGAAC	TGAGACCTGA	60
AANNGTAAAA	CTANNGNAAC	AAAACCTTAGG	GAGAAAGCTT	CTTGACATTG	GCCTGGGCAA	120
AGATTTTTTT	GGATATGGCC	CCATAATGAC	ATAGGACAGG	CAACAAAAA	AAAAATGGAT	180
AAATGGGATT	GCATCAAAC	AAAACCTCTGT	ATAGCAAAGA	AAACAATCAA	CAGAGTGAAG	240
AGACAACCTA	CAGAATGTGA	GAAAATATT	GCAAACCACA	CATTTCATAG	GAAATTAATA	300
TTCAAAATAT	ATAAGGAACT	TATGTAACTC	AATAGCAAGA	AAACAAATAA	CCTGATTAAA	360
AAATGAGCAA	AGGTCAGTTG	AGAGAGGAAG	AGAAAAACAA	TATGAGTAAA	AGACTTTAAT	420
AGACCTTTCT	CAAAAGAAGG	TATGTGCATG	GCTGATCTGT	GCATGAAAAG	GTACTTAACA	480
TCATTAATCA	TCAGAGAAAT	GCAAATTAAC	ATCATCTCGA	G		521

(2) INFORMATION FOR SEQ ID NO:945:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:945:

GAATTCGGCC	AAAGAGGCCT	AGGTACACAA	AAGCAAACAG	AAAAACTCTT	AAGTTTTTCT	60
GCAATACTAA	AGAAAGTGAG	ATAAGACTTT	AAAGTTAAAG	ATCTATAGAC	ACTTTAGGCA	120
AAACAGGCTC	ATAAAGCAAT	TAAAAAATCA	ACAATTAGT	AAAAACAGGC	TACATAGTAT	180
TTTGTTTTTA	CGTTTCATTT	GTCTATTGAT	CTTTAAATTA	AATTAGACAT	TTCTACTGTT	240
TTCCTGTACT	CTTATACACA	CCTGTTTTCT	CCAATGTTCT	CCTTTAGTAT	GGCTGGTAAT	300
TGTTTTGGTG	ATTGCCACCC	CCTCGAG				327

(2) INFORMATION FOR SEQ ID NO:946:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 573 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:946:

GAATTCAAGG	GCTAGGCGAG	TTATTGCAGT	CACGTCCTTA	AGTCAGCCGG	GTCTCTTCT	60
TTTCCCTCAA	GGTGCCTGTG	TTTTCTATTT	CCCCGTCCAG	TCGGTGGCCC	CACCCAGCCC	120
CAGGGTGCTC	CCTTCCCCC	TTTCGGGTTT	CTGCCTGGAG	GGTGTGGTTT	TCTCTCCAC	180
CTCGGTGCCT	GCCAGTAGAC	TGGAGTCCC	CGCCACGCTG	TCGGTCCCAT	CTCATCACCT	240
TTCCGCTTTC	ACGCCCGTAG	CTAGTCTTGG	GACTGGCCCT	GTTATAGCCC	CAACTTATGC	300
GCTCTCTAAC	CTTTCCTGGC	TTACCCGAG	TCACAGTTCA	GTTCTACTTC	TTTTCAATTC	360
TGTAGGGCAT	TGGTCTCAAT	TGGGACTCAG	TTTTCCTCCA	CACCCGCCGT	TCCTGTAGTC	420
TGGTTATATC	ACAGTTCATT	ATTTAATGTA	GGTTTTTGAG	CGCTTTGTAA	ACGGCAAAGC	480
TCTCTCTGTT	AATAATACAT	ACTCAAAATG	TTATTCTTTC	ATTGGTGCAT	TACAACTCAG	540
TTGTTTGCTT	CTGAATCACT	TTCCCGACTC	GAG			573

(2) INFORMATION FOR SEQ ID NO:947:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:947:

```

GTTGAAGTCA TTTATTATTT TATAAATTGA GAACAACCAC ACCACCAAAT GTCACACCTT      60
CTTATAAAGT GTGAACAAGG AAGGTCATGT TTTTGTGGGT ATTTTGTGAG ACTTAGAGGT      120
TTCATTTTCAG GGCATAGTCA AAGGCATCAT CCTCCCAACT ACCCACTTGA TTATGTATTT      180
CAGATCCCTC CGTGGGGGCC TTCTTCTGAC AGAGAATTCT TTGAGGTACG CAGTAGTGCT      240
TTTGTGAGCA CAGACTGCTA ATCTACATCT TGCTGCGTTC TGTTTGCTGA GGTGGGCTT      300
ATTCATTTAA CACGTACCAA CCATTATCAC TCGAG                                     335

```

(2) INFORMATION FOR SEQ ID NO:948:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:948:

```

GAATTCGGCC AAAGAGGCCT ACGGCCAAAG AGGCCTAGTC GGAGGAGGAA ACATATGTAG      60
GGAACAGCCT GGGTCTTG TG AATCCGTTTC CCAGCTATGA TGCCTATTTT CTCAGCAGAA      120
TGAGTGTAGC ATGTCTCCCA GGTCTGTTTT TTATTTGTTT GAGAGGTGAT TTCAAGCAGA      180
ATCTCACAGC TTAAGTGTGG AAATGCTATC AGTTGTAAAG ATAGGGAAAA TCTCTCTTCC      240
ACTACGGTGG TAGGAAATGA ATACATATCA TTTCCAGCT TCCAGGATGT CCTGTCTCT      300
TAACTGTGCG TCCCAAGGA CCTACAGATC ACAGGGCAAC AGGGGCTGTG AAAGAGTAGC      360
CCGGGGCTCG AG                                                              372

```

(2) INFORMATION FOR SEQ ID NO:949:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:949:

```

CTAGCATTAC GAATCTCTTA GGATTTTAA GATTGTATTT GATAATACTT ATATTTTACA      60
GGGCACACTT TTGGCACACC TCAGAGCACA CTGCTGCTAT TTTGGGTCAT ATCACTGTAA      120
AATACATAAT AAGTACTACT TAACTGTGAC ATGAAGAATT GGAATCCCAG AGGGCAACAT      180
TTGATTTCGAC TAAGATCAGG CATAAGATAG AATTTTGTGC ATTTTTCCTT GCAGTTTAT      240
TGACTTAGTT TATGAGCTTG GATAAAATAA TTTTGTGATG AATCATGTCA ATAAAAGGAA      300
AAATAATGTA ACTACCTCAT AAGTCTGATA AAAGGAAGTT GCTAGTGTTT TATAGAATTT      360
CTGAAGGTGG TTAAATCAAG TATGATTTCA AAATATCAAC TAGTTCCTACT TTTGTGATTG      420
CAGGATGCTT CTTATACTAA AGTTCTCGAG                                         450

```

(2) INFORMATION FOR SEQ ID NO:950:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:950:

GAATTCGGCC	AAAGAGGCCT	ACGTAGGCAA	AGGTTGACCC	AATCAAAGAT	AAAAGAAAAT	60
CGACAGCAAA	TCGTTCTGTC	TCGAAAATAT	TATGATGATT	ATAGAGTTCA	GTTGTGTGCA	120
AAAATGATGA	GAATGAGGAC	CCGGGAAGAA	ATGATATTTA	AGAAACTGTT	TGAAGAAGGT	180
TTAAACATTC	AAAAGCAAAG	ATTACGAGAC	CTAAGAAACT	ATGCCAAAGA	AAAGCGAGAT	240
GAACAAAGGA	GACGCCACCA	GGATGAACTG	GACTCCATGG	AGAACTACTA	TAAGGACCAG	300
TTTTCATTGC	TGGCAGAAGC	CATATCACAG	GAACAACTCG	AG		342

(2) INFORMATION FOR SEQ ID NO:951:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:951:

GAATTCGGCC	AAAGAGGCCT	ACCCTGTTTT	AATCACATGA	CTACCTGTCC	CAGTACACGA	60
AAGGGCGCTG	GTGGGCATTC	TTCTTAATGT	ATTTAGTAAA	GATTATAAGA	CATCCTTTAA	120
GAGTTTAAAT	GTCTCTGAAA	CAGGCATACA	GGCTCTAGTC	AAGAATGAAT	TAGAGTGAAG	180
GAAAGCTGTG	TGACACCTGG	CATTCCTCTC	TGTTTCATGGA	GCTTCTTTGA	GGCTTGAAGT	240
TTGATTTTAC	TATCTAGACC	TCTCTGGCTA	ATACCTATTC	TTCAACCACC	TCGGTTACTC	300
TGACATAGGA	ATTACTTCT	TTTCCTTGAG	TGGAAAACAC	TTTAGAAAAT	AATAACAAAC	360
ATTATTATAA	ACTAATATAT	GTGAGAGTAC	TTAGTTGAAA	CAAAAAGGAA	TTTTAGTAGA	420
CAGTATTATA	TTATCTTTGA	AAATCAAGGA	GAAGTTTATG	CAACTGAAAA	TGTTTACACA	480
CTGTGCTACT	CGAG					494

(2) INFORMATION FOR SEQ ID NO:952:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 522 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:952:

CAAAGAGGCC	TAGGGAGTGT	CGCTCTGTCA	CCCAGGCCGA	GATTGCACCC	CTGCACTCCA	60
GGCTGGGCAA	CAGTACGAGA	CTCTGTCCAA	AAAAAATAAA	AAAGAACAGC	CTTTTTAGGC	120
CACAGTGACC	TGCGCAATGT	TTATATGCTT	NGACCTACTA	ACTTTCTCCT	AACTAAATAT	180
TTGATTTTAC	GAGAGTGTTC	AAATAAATTA	CAGTATGTCT	ATATGATGAA	ATGTTATTTT	240
GCCATTAAAA	TTTTGTTTAC	AAAGATAAAT	TTTATTGACA	TAAAAATNAC	TTTAATGTAA	300
TTTATGTTGA	AAAAGCTGAA	TACAAGTCTT	TATATAGAGT	AATATTTGAG	CTGTGTTCAA	360
AAATACATAG	GAAAAGACTG	ATAAAATGAA	ATATGGCNAA	ATGTTAATAG	TTTCCCTGG	420
AATAGGATAA	TAGGCAATTT	TAAAACAGAC	TCCTTTAAAA	AAACAAACAA	ACNAAAAAAA	480
CATAGACTTC	TTTATATCTT	TTGAGCTCCC	CCCCNACTCG	AG		522

(2) INFORMATION FOR SEQ ID NO:953:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 483 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:953:

```
GAATTCGGCC AAAGAGGCCT AGTGTGTTAT ACAGTTGTTG CCACTGCTGT TTTCCAAATG      60
TCCGATGTGT GCTATGACTG ACAACTACTT TTCTCTGGGT CTGATCAATT TTGCAGTAGA      120
CCATTTTAGT TCTTACGGCG TCAATAACAA ATGCTTCAAC ATCATCAGCT CCAATCTGAA      180
GTTCTTGCTG CATTGTGTCA AAAGAAATTT CCTTATTTTC TACTGCCATT CCCATAAAAG      240
TAAGTAGTCT CATTTTGGCC ATATTCTGTT CATGTAACAG GCCAAGTGAA TCAATGAAGT      300
CTTTATTATT CTGATAAAAC TTGACATATG ATGCCAATTT AGCACTCACA AAAATGGTTA      360
AAAGATCATG AATAAGCTCG CCTTCCAAA ACTTGACTGG TTTTAAAGTA AGAAGGTGGT      420
CAAAAAGAAA TGCATTGGA TCTTTCAATG CTCGTACAAT ACACCTGTGG GCATCAACTC      480
GAG                                         483
```

(2) INFORMATION FOR SEQ ID NO:954:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 372 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:954:

```
GAATTCGGCC TTCATGGCCT AGGTGCCCTC TGTGAAGCCA GTGTTCTCTG CTCCCCGGGT      60
CAGAGGTCAC AGGTCAAGTT CAGTCAGTCC GAAGAATCAT GGGCGGGTGC TCGCTGTCCT      120
CATCCAGGCG CAGGGCGCTG GCCTCGTCCT CCAGGCAGGC GCCACCCACA GCACCCAGGT      180
CGTCTGTGTA GGCTGCAAAG AGACGACGAA GTCACCCCTC AAAGGCTGGG GACACACCAC      240
AGACCCCATG ACACACACTG AGGACTGTGT TTTGGAAACA CTGGTGTATA TTTATAAACT      300
GAAGCCTGTA CTAAGACGTT CTGAATTCTG ATTGCTTTCT AATGAACCTT TTGCAGCCTT      360
AGGCAGCTCG AG                                         372
```

(2) INFORMATION FOR SEQ ID NO:955:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 436 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:955:

```
GAATTCGGCC TTCATGGCCT ACTATTACCA TTATATATCA CCCATCTGCA ACAAGGTACT      60
GTACAGACAA GTAAGAAGTA TGTATCTAG TTCCCTTCC CCCAGAAGGT TGAGGCTCAG      120
GTATAGGGGT AATTCTCCTG TGCAGTCTTT ATTTATGCTG ACTCAGTGAC TTCAACAGGC      180
TTAATCATGT GGTCAAGTTT GTTGCCAGCT GCATAATGCT CCCACATCTG TAGATAGAGC      240
CGCTCTAGTT CCATTGTGTA TTGTTTGGTG TTGAACAGAG GGCTAGATAT TCTTTGCTTC      300
CAGACTTTGC CACGAACCTT CTTCAGGTAT TCTAGATCAG TTCCCAGCTT CACAGCTATG      360
TCTTCATATT CTGTCTGTT TTTAGCAATA AGCTCAAGAC AACCTAAGCA AGTGAGCTGG      420
GATGCTGCAA CTCGAG                                         436
```

(2) INFORMATION FOR SEQ ID NO:956:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:956:

```

GAATTCGGCC TTCATGGCCT AAGGAGATGG GAGAATGTCC GGGGAGGGGC TGGCAGGAGG      60
GGCCAGCCAA ACTGCACGGA CTTGCTGGT TAGTGAAGGA TTTAAGTCC TCTAGTGGAA      120
TTAAGTGATT AGATTTTTC CTTACAAAGG AAACCTCTCT ATGGAGAACA AACTACCATA      180
TGAAGCTAGC GGCCTAAACC AGGAGAATGT GGGGAAAGAA GAGAGGTGAG GATAACTGGA      240
GGGGTATTAT GTAACAACAG AAAGCATCAC AGTTCAATGA ACAGGGCAAG GTGGGCAAAT      300
GAAGAGGGCA GAGGAGGACT GGGCCCTCGA G                                     331

```

(2) INFORMATION FOR SEQ ID NO:957:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:957:

```

GAATTCGGCC TTCATGGCCT AAGACTGTGA GTTCTGGGGC CAAGAAAAGT TTTGAATTGC      60
TCTCAGAGAG CGATGGGGCC TTGATGGAGC ACCCAGAAGT ATCTCAAGTG AGGAGGAAAA      120
CTGTGGAGTT TAACCTGACG GATATGCCAG AGATCCCCGA AAATCACCTC AAAGAACCTT      180
TGGAACAATC ACCAACCAAC ATACACACTA CACTCAAAGA TCACATGGAT CCTTATTGGG      240
CCTTGGAAAA CAGGTCTGTC CTCCACCTGA ACCAGGGGCA CTGCATTGCC CTGTGCCCCA      300
CCCCAGCTTC CCTTGCTCTG AGCCTACCCT TCCTCCACAA TTTCTAGGG TTCCATCACT      360
GCCAGAGCAC ACTGGACCTA CGCCCAGCAC TGGCTTGGGG TATATACTTG GCCACCTTCT      420
CGAG

```

(2) INFORMATION FOR SEQ ID NO:958:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 597 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:958:

```

GAATTCGGCC TTCATGGCCT AGATATGGCC AGGATGCTAT AGCATTGTCA GTGAGGAGAC      60
ATCAGAGCTT TCCCAGATCG GGAGGAAAAA TATGGAATGT GTTTTACCGC TGAAGTGAACA      120
CAACCAAATG AACTGTCCTG ACAGTAGTTT GCAAACCAGC AGCTAGCAGT TTGTCCAGCC      180
TCTAACATTG TCCAGCACTT TCCAGAGCAA ACTCACTGTT TACAAGAACT CTTGGCCTTA      240
CGAAGTTTAT AACCTCAAGC TTTGTTTATT TAAATATTC CTGCAAAAGA AAAGTACCCG      300
GCCCATGACC ATTCGTGACA GGCCCTTTGA ACGGACGATT ACCATGCATA AGGATAGCAC      360
TGGACATGTT GGTTTTATCT TAAAAATGG AAAAAATAACA TCCATAGTGA AAGATAGCTC      420

```

TGCAGCCAGA AATGGTCTTC TCACGGAACA TAACATCTGT GAAATCAATG GACAGAATGT	480
CATTGGATTG AAGGACTCTC AAATTGCAGA CATACTGTCA ACATCTGGGA CTGTAGTTAC	540
TATTACAATC ATGCCTGCTT TTATCTTTGA ACATATTATT AAGCGGTGCG ACTCGAG	597

(2) INFORMATION FOR SEQ ID NO:959:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:959:

GAATTCGGCC TTCATGGCCT AGTGTCTTCT TGTCAACTTC ATTCTCTTCT CTTGTTTTCT	60
ACGTCCTGAGA TCTTCTGAA CACATTTTGT TAGAGGCTGC TGTCTCCTGC TGTCTGGAGA	120
ATGATCTTTA GAGGGAACGG AAGCTTTCTT CCTGTGCGTG TGTGTCTTCC TGTGTCCCTAG	180
CACCTGGGGG TGGAGAGTCT CGGGGCGGGG ACACCAGTGT CATCAGCGCC TCTGCTGTCG	240
TGCTTCTCTT TTGCATGTTT GGAAAGCCTC AAGCGGGAGG CGGACTCGAG	290

(2) INFORMATION FOR SEQ ID NO:960:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:960:

GAATTCGGCC TTCATGGCCT AGTGAGTGAG TAAGACAGGT TGCTCTTTGG AAAACAAGGA	60
AAATCCCTTT ATTAGAACAA GGCATGAAAT TCTGCCACTA GGTGGCGATG CCCTATAACT	120
TTACAACTTA GTGTACATCA CACGAGCACT ATGGAAGATT TCTCCATTCT GCGCCCCACC	180
AACTCCCTCC CCTCCTTCAT TTTTCAGGAT GACAACACCT TAGAGGTTTA TGGCCATCAG	240
GAGAATTTAC TACTAAGCTA TATACTGATG TAATGAAATC TAATATATGT TGTGCTCGAG	300

(2) INFORMATION FOR SEQ ID NO:961:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 503 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:961:

GAATTCGGCC TTCATGGCCT ATTTTCCCTT CAGGATTGTG TGTTGGGGTG GGGGCATACT	60
GGGGATGACA GAGGGAGAAA GAAAGATTTT TATTTTTCCT TCTAATAAAT GTTCATTGAG	120
AAAGTTATAG AATATGGAGA AAATGAAATT TATAACTCTC CTGCGCAGAA ATACTGTTAG	180
CTGTGAGTTT CTTTCTATA TATGCTTATA TAGTTGAGAT TATGCATGTA TACAGTTCTG	240
CATCTTAGCT TTAATAATAA TGTACATCTT TGATAATTTT CCAGTCATTA AAATTATTTG	300
AAGATATCAT TGATGTATCA CCTTATTTTA TATTCTATTT GAATAATACA TCCAAGGTCA	360
CCAAAAGATG ACAGTGAAAT GTATTGTTTG TAATCTACAT TAGCATCAGT AAATATGGAC	420

CATTAAATT GTGTTAAGTC AACCTCTCTG ATCTTATTTT ATTAAAGTTT AGGATAGGCA 480
CTACATTTGA TGGGACTCTC GAG 503

(2) INFORMATION FOR SEQ ID NO:962:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 394 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:962:

GAATTCGGCC TTCATGGCCT AAGCAGCTGC TGCCTGCCAG AGAGGCGCCT TCAGAGACCC 60
 AGCGCTTACA CAATACCCAC CATGTCCCAG GCTGGTGCTC AGGAAGCCCC TATCAAGAAG 120
 AAGCGCCCC CTGTGAAGGA GGAGGACCTG AAGGGGGCCC GAGGAAACCT GACCAAGAAC 180
 CAGGAAATCA AGTCCAAGAC CTACCAGGTC ATGCGAGAGT GTGAGCAAGC TGGCTCGGCC 240
 GCCCCGTCGG TGTTCAGCCG CACCCGCACA GGTACCGAGA CTGTCTTTGA GAAGCCCCAA 300
 GCCGGACCCA CCAAGAGTGT CTTCGGCTGA GAAGTGTGCG CCACTCCCCT TGCTGCCCCG 360
 ATGCTCGGAA ACAGGAGCCT TACCCAGGCT CGAG 394

(2) INFORMATION FOR SEQ ID NO:963:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 497 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:963:

GAATTCGGCC TTCATGGCCT ACCCTTCATG GCCTAGGAAA CTCACAAAAT GAAATATCCT 60
 TCTCAACGTC ACTAGAGAGT GGCAGAGTTT AGAGACAAAG CCATCTGATT TTGGAGCCTG 120
 TGCTCAGCTT TTAGCAGACA CACTGATTTC CAAGAATTGC TAGGATGTTT CTCAGTGCAG 180
 TTGACCACAG GACTCTCTGG AAAGCCTTCA GGAAGTGAAT TCCTCCAGAC AGTTTGGGAA 240
 ACACATGCATG TGTCTATTAT GAAGCCATCA GCTGAGCTCA TCCCCCGTGC ACTCCACAAC 300
 GCTGAGGCTC TGCACATGGC TCACCAAGTGC CAGGTGCTGC CAGTCAGCAG TGCCGTGCTG 360
 TTTCCACAGC AGCCTGCATA CGTCTATATT GCCCAGCCTG TTTACCTGG CGGGGTCACA 420
 CAAACCACCC CCTGGTATTG TTAGCACGTC CACATAATGG CATCTCCACA GCTGTGTCAT 480
 CCAAAAGAAA CCTCGAG 497

(2) INFORMATION FOR SEQ ID NO:964:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 395 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:964:

GAATTCGGCC TACATCTTTT GATGACTCTG ATACCTTCAT TCATTTTCA AAGGAATTTA 60
 CTGATCATGA GGTGGGAAA TCTGTATTTT TCTTGCTTAT TATGTATTAA TAATCATAAA 120

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TGTCTAGATT CACCAGAAGT CACCAGAAGG TCTGTCTCAG TGAAGAAAAC TTATAAAGCC      180
ACTTTGTTGC ATTTTGTGTT TCAGTGTTAC AGTTTGAGAT CTGTATATTT GTACACAGCT      240
ATGTGTTTTT CATTGAAATA ATGTACAAAG ACTGATCTTG ATGCTGTGTA TTTTATGAG      300
TTGTCTTAGG CATTCCTGAG CTCAGCTTCA GTTGGATGGT GGGTCAGCAC CCTGCCGTTT      360
TGAACATACT AGACTTCAGT TTAAACTGTC TCGAG

```

(2) INFORMATION FOR SEQ ID NO:965:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 471 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:965:

```

GAATTCGGCC TTCATGGCCT ATAGTAAATG CCCACTAGGC ACCCTGGAGT CATTGTGTGA      60
GAGTGGCATC TCTATACAAC TGTTGACTA ACTGTCCGAG ACACCCCTAAT CACCCCAGCC      120
ACAAACAAAT AGAACATTGT ATGTGTGCTG AATCCACAA AGGCCAGACA TGATGCCATG      180
AGACCAAGAA GGAAAGAAA TAATGTGGAA AGGGTTTGGG GTGGAAAGGT GGGGAACCTG      240
GAGGCGGGCC ACATGGGGCC CCAGAAGCCA TGTGAGGGT TTTGTCTTCA CCAAAGGATC      300
AGTGGGAGAT TAGTGTAGAA CATTAAACAG AGGTGGGGTA TGTGTCATAT TTCCATTAAA      360
AAATTCATCC TGGCCACAGT GTAAAGAATA GATTAGGGAG GAAGCCAATC AGGAAGCAAT      420
TGGAGTAGGC AATGCAAAAG GCAAAGTGAA CTTGGACTAG TGGTTCTCGA G

```

(2) INFORMATION FOR SEQ ID NO:966:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 611 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:966:

```

GAATTCGGCC TTCATGGCCT AAGCCAGCTC AGNIGCNTCA GAGATTTTGT GTGTCCTTGC      60
ATACACAAC TAAATTTCTCT AGGATTCAGT CTCCTCGTNT TATTTTAAA ATNATTTTAT      120
TTGTAAATAC CTCATCGTGG ACTCCAAAAG CATGTCTCCT CGTTTAAAA ACTGGCATAA      180
TACCTACCAC AAAGGTGGAT GTGAGAATTA AATAGAGCTT TATACAGAAT TCCCTCAGGC      240
ATTTTAAAGT TTATGTAATA GGGATGTATC TTACAGTTGA TGGGTACATT TAGTGTAGTC      300
CCCCTACCTC CCAAGCTAAT AATGGTGCGT CGTACAATTG ATGGTACCAA ATTGAGGTGA      360
TAATAACATA GAAAGAGTTT AATGCAACGT GAAGTACAAA ATGCATTCAA TAAGTAGCTG      420
CTATCATTTT TTTAAAAATT AAATATGGCT GCTTGTTAAG GCCATATCCC AGGAGGAAAAG      480
TGTGGTCTCT GCTGGGAGGT TGGTCTACAT ACAGGAAGCC AGATGTGTGA GATGGCTCTA      540
GATAGGCAGA AGGGGAGAGC TCGTGCCCTC TAGGAACCTA TTAATAGATA TCAAGGGAGG      600
GATAGCTCGA G

```

(2) INFORMATION FOR SEQ ID NO:967:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 343 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:967:

GAATTCGGCC	TTCATGGCCT	AATTAAAGTT	TTTCTAGCAG	ATCGCTCAGG	TTGCTCTTAA	60
CTGGAATGTA	GTGTTTCCAG	GGCTGCAGCT	CATTGTAAAA	ATGTTTCATAG	TAGATGGAAT	120
CCTGCTTCAG	CACAACACTG	TCACCAACTA	GCAAATATGG	CAGGCGATAA	GCTGCTACAG	180
TGCCATCGAT	ATTATTTGA	TACTTATGCT	TGAAGAAATC	AAAAAATGAA	ATATGTTTCA	240
CAATGGGACC	ATACAGGTTT	TCATCGTGTT	TAAAGAAGAA	AAAGTTGGTG	AAAGCAGCGT	300
CTATGAGTTC	TGGGTGTTTT	CTACTGAGTT	TAACCAGCTC	GAG		343

(2) INFORMATION FOR SEQ ID NO:968:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 593 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:968:

GAATTCGGCC	TTCATCGCCT	AGCCAGGANC	TTTCTCGGAC	GCCTTGCCCA	GCGGGCCGCC	60
CGACCCCTG	CACCATGGAC	CCCCTCGCC	CCCTGGGGCT	GTCGATTCTG	CTGCTTTCCT	120
GACGGAGGCT	GCACTGGGCG	ATGCTGCTCA	GGAGCCAACA	GGAAATAACG	CGGAGATCTG	180
TCTCCTGCCC	CTAGACTACG	GACCTGCGG	GGCCCTACTT	CTCCGTTACT	ACTACGACAG	240
GTACACGCAG	AGCTGCCGCC	AGTTCCTGTA	CGGGGGCTGC	GAGGGCAACG	CCAACAATTT	300
CTACACCTGG	GAGGCTTGCG	ACGATGCTTG	CTGGAGGATA	GAAAAAGTTC	CCAAAGTTTG	360
CCGGCTGCAA	GTGAGTGTGG	ACGACCAAGT	TGAGGGGTCC	ACAGAAAAGT	ATTTCTTTAA	420
TCTAAGTTCC	ATGACATGTG	AAAAATTCTT	TTCCGGTGGG	TGTCACCGGA	ACCGGATTGA	480
GAACAGGTTT	CCAGATGAAG	CTACTTGAT	GGGCTTCTGC	GCACCAAAGA	AAATTCCATC	540
ATTTTGCTAC	AGTCCAAAAG	ATGAGGGACT	GTGCTCTGCC	AATCCGACTC	GAG	593

(2) INFORMATION FOR SEQ ID NO:969:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:969:

GAATTCGGCC	TTCAAGGCCT	AGTTTGTTTG	TTTTCGTTTG	GTAAAGCTT	ATTGCCATGC	60
TGGTGCGGCT	ATGGAGACTG	TCTGGAAGGC	TTGGAATGGT	TTATTGCTTA	TGGTAAAATT	120
TGCCTGATTT	CTTACAGGCA	GCGTTTGGA	ACCTTTTATT	ATATAGTTGT	TTACATACTT	180
ATAAGTCTAT	CATTAAAGA	CATGTACTGA	AACAAATGTA	TTTGTTTCAT	AAGCATCTTC	240
CTGTAATCTA	TTATAAAATT	GAAATTAAAT	ATAGAGAATG	TTTAAACAAT	TTTTTAACTC	300
AAAATTTGTC	AATCATTTTT	AATAGTTCTT	TTTTTATAAA	AAGAAAAAGG	AATTTAAGGA	360
CAGGCAGTAG	TCTCTTTTAA	AATTTATTCA	CAAAACCAT	TAACCTCGAG		409

(2) INFORMATION FOR SEQ ID NO:970:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:970:

GAATTCGGCC	TTCATGGCCT	AAGATTATAT	AAGATTATGC	CAATAAACT	CATGCCTGAG	60
GAAGTGTTG	CTCCCTTCT	ATGGGTCAGT	ATTGGTGCAA	GAAGTGGAAA	CCAGCCCTTG	120
GAGAATAGTT	ATACATTGGC	CATGATTTTC	CACAGCCCTG	GAAATGCACA	ATTCTATCCT	180
CCTACCAGGA	TGATTGTTAA	GTTTTAGCTA	ACATTTGATT	ATAAAAGGCC	GTAAGTATGA	240
GTATCTCTGA	GATAATTTGT	GTATTGGAAA	GAGGTGTGTA	ATAGCACTTT	TTTAAAAAAA	300
CCTAGGTGTG	AAGGAATTAC	AAGTCCAGAA	GGCTCAAAAT	CTATAGTGGA	AGGAATCATA	360
GAGGAAGCTC	GAG					373

(2) INFORMATION FOR SEQ ID NO:971:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 656 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:971:

GTGGAAGTCC	TGACCTCAGG	TGATCCGCCC	ACCTTGGCCT	CCCAAAGTGC	TGGGATTACA	60
GGCGTGAGCC	ACCACGCCCC	GCCTATCTCT	TGTTTTTAAA	TCAGTCTAGG	GTGCCAAAGC	120
ATCAGGGTTC	CCGGCCTGCA	AGAAAGGGAG	ATTCTGTTC	ATGTTAAAGT	GTCATATTTA	180
TGAAAGTCC	CTTTTGGAA	TCTTTGAGGT	TGCTGTACT	ATAGGACTGG	GGAAATGCAA	240
GTGAGTCTAA	GAAGAAACCC	AGATGTGTCC	TACCTTGGCT	GGCAGTAGTG	AGAAGGGAGG	300
AAGTTCTTCC	TTGGACACTA	GTACTATTGG	AAAGTTCCTT	ATGTCTGGTT	CACTGATGAA	360
GCTTGAGGAT	AGAATTGGTG	AGGAGGGAGG	GGAGAACAGG	TCACAGCTGG	AGGGGAGCCT	420
GGGCCCTATA	GGGTGTGAGG	CAGAGCAGAG	TGCCAGATAG	GACATGTGGA	CGGTGGGGAA	480
AATATTCCTC	ATGGGACAGA	AGATACCTGG	CACATGTACC	CACAACCTGT	ACACAGATGA	540
TCTGTACTGG	ACACACGTGG	AGATATGGCC	ATGCCACGCA	TGTGCAAACA	GAGGTGTACA	600
CACAGGAGTG	CAGTGATACA	GGACACAGAT	AAACAGAATG	TACACAGCTT	CTCGAG	656

(2) INFORMATION FOR SEQ ID NO:972:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:972:

GCAGGAATAG	AGTTGGAGCG	GTGCCAGCAG	CAGGCGAACG	AGGTGACGGA	AATTATGCGT	60
AACAACCTCG	GCAAGGTCCT	GGAGCGTGTT	GTGAAGCTGG	CCGAAGTGCA	GCAGCGTTCA	120
GACCAACTCC	TGCATATGAG	CTCAACCTTC	AACAAGACTA	CACAGAACCT	GGCCAGAAAG	180
AAGTGCTGGG	AGAACATCCG	TTACCGGATC	TGCGTGGGGC	TGGTGGTGGT	TGGTGTCTTG	240
CTCATCATCC	TGATTGTGCT	GCTGGTCGTC	TTTCTCCCTC	AGAGCAGTGA	CAGCAGTAGT	300
GCCCCACGGG	TCCTCGAG					318

(2) INFORMATION FOR SEQ ID NO:973:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:973:

GGAAAAATAC AAAAATTAGC CGGGTGTGGC GACGTGCGCC TG TAGTCCCG GCTATTCAGG	60
AGACTGAGGC AGGAGAATCG TTTGAACCTG GGAGGTGGTG GTTGCACTGA GCCAAGATTG	120
CGCCATTGCA CTCCAGCCTG GGCAACAGGG TGAGANTCTG TCTCCAAAAA AAAAAAAAAA	180
AAAAGCTGGA TTACAGGCGT GAACCAACGC ACCCAGCCAA TTCATAGGTG TTTTAAGTGT	240
GACACTTGGA TGGTTTAAGT CTGATAGAAC TTTTACATTT ATTATACATT TAAATATATA	300
CCAGGGGCTC GAG	313

(2) INFORMATION FOR SEQ ID NO:974:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 372 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:974:

GAATTCGGCC TTCATGGCNT ATTCTTCGCA GATTATGAAG ACTACATTAA ATGCCAGGAG	60
AAAGTCAGCG CCTTGTAACA GAACCAAGA GAGTGGACGC GGATGGTGAT CCGGAACATA	120
GCCACCTCTG GCAAGTTCTC CAGTGACCGC ACCATTGCCC AGTATGCCCC GGAGATNTGG	180
GGTGTGGAGC CTTCCCGCCA GCGCCTGCCA GCCCCGATG AGGCCATCTG AGCCTCCAGA	240
CCAGACCCCA AACCAGCCCT TGAGTCTGTC ACACTCTCTT GGGCCAGCCC CAGCACCTCA	300
TGCAGAGGGT GGGGTACTGG AGTTAGATCT CTAAGCCCCT CCTGGAACCC TCATTTTCCC	360
CACGTGCTCG AG	372

(2) INFORMATION FOR SEQ ID NO:975:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 449 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:975:

GAATTCGGCC TTCATGGCCT AAAGGATTG ATTCAGAGTG ACATAGCTGC TCTCCATCAC	60
TTTACTCCA AGCATCTCGA ATCCCTGAC AATGATAGCC TCGTAGTACT CTTTGACAG	120
GTTAAGTGA ATGGCTTCAC AATTGAAGAT GAAGAACTTT CTCATTTGGG ATCAGCGATA	180
TTTCTGATG TTGCATTGAT GAATCATAGC TGTGCCCCA ATGTCATTGT GACCTACAAA	240
GGGACCCTGG CAGAAGTCAG AGCTGTACAG GAAATCAAGC CGGGAGAGGA GGTTTTACC	300
AGCTATATTG ATCTCTGTA CCCAACGGAA GATAGAAATG ACCGGTTAAG AGATTCTTAT	360
TTCTTTACCT GTGAGTGCCA GGAGTGTACC ACCAAGGACA AGGATAAGGC CAAGGTGGAA	420
ATCCGGAAGC TCAGCGATCC CCGCTCGAG	449

(2) INFORMATION FOR SEQ ID NO:976:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:976:

```
GAATTCGGCC TTCATGGCCT ATAGTGTCTT CCTNGGCGCT GCGACAGCCA ATGTAATGGC    60
CTTTCTGTTT CTCATAAGCA GTTTTGTTACA GATAATCACT GGCAATATCC CTGGAAGCCT    120
TGGCATGCTG GATCCCAATG GCATCAAACG CGAG                                154
```

(2) INFORMATION FOR SEQ ID NO:977:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 485 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:977:

```
GAATTCGGCC TTCATGGCCT AGAAGAAATC TCTCTTCCAT TCCTGAAAAC AATTTTAGTC    60
CATTCCTCTT CATTAACTTA AGTATAAAAC TACTAATATC TTTCAAGTGC CAGAAGTCC    120
TCAAGAAGCC GCAGAAAAAG AAATTCCCGT GGCTCCACCC AAAAAACCAG AAGCTCCGAT    180
TGTCCTCAGT ACACCTTAGC CCTGACTTCA TTCTGCAGAA GAGATATCTC CTCTCCTACT    240
GTAAACAATT TTAGCCCATC TCTCTTCATT AACTTAAGTC TAAACTACT AATATCTTTC    300
AAGTGCCTGA AGCTCAAGAA GTTGTCCTCAG AAAAGAAAGT TCCTAAGGCT CCTCCCACAA    360
AACCAGAAGC CCCACCTGCC ACAGGTATTT TTTACCCCTG TCCTTTTCTC GCAGAAGAAA    420
TATCTCTTCT GATCTTAGAA ATATTTTACT CCATTGTCTC CATTAACTTA AGTGAAAAAC    480
TCGAG                                         485
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(2) INFORMATION FOR SEQ ID NO:978:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 322 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:978:

```
GAATTCGGCC TTCATGGCCT AGAAAGATTC CTACGTGGGC GACGAGGCTC AGAGCAAGAG    60
AGGTATCCTG ACCCTGAAGT ACCCTATCGA GCACGGCATC ATCACCACCT GGGATGACAT    120
GGAGAAGATC TGGCACCACA CTTCTACAA CGAGCTTCGC GTGGCTCCCG AGGAGCACCC    180
CACCTGCTC ACCGAGGCC CCCTCAATCC CAAGGCCAAC CGCGAGAAGA TGACCCACCA    240
ATCACCTAGG CCATGAAGGC CGAATTCGGC CTTATGGCC TAGCGCGACC GCGAGGGAG    300
GAAGAAGCGC GAAAAGCTCG AG                                         322
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(2) INFORMATION FOR SEQ ID NO:979:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 499 base pairs
 - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:979:

GAATTCGGCC	TTCATGGCCT	AGCCGCATCT	TCTTTTGCCT	CGCCAGCCGA	GCCACATCGC	60
TCAGACACCA	TGGGAAGGT	GAAGGTCGGA	GTCAACGGAT	TTGGTCGTAT	TGGGCGCCTG	120
GTCACCAGGG	CTGCTTTTAA	CTCTGGTAAA	GTGGATATTG	TTGCCATCAA	TGACCCCTTC	180
ATTGACCTCA	ACTACATGGT	TTACATGTTT	CAATATGATT	CCACCCATGG	CAAATTCCAT	240
GGCACCCTCA	AGGCTGAGAA	CGGGAAGCTT	GTCATCAATG	GAAATCCCAT	CACCATCTTC	300
CAGGAGCGAG	ATCCCTCCAA	AATCAAGTGG	GGCGATGCTG	GCGCTGAGTA	CGTCGTGGAG	360
TCCACTGGCG	TCTTACCAC	CATGGAGAAG	GCTGGGGCTC	ATTTGCAGGG	GGGAGCCAAA	420
AGGGTCATCA	TCTCTGCCCC	CTCTGCTGAT	GCCCCCATGT	TCGTTCATGGG	TGTGAACCAT	480
GAGAAGTATG	ACAACAGCG					499

(2) INFORMATION FOR SEQ ID NO:980:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 333 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:980:

GAATTCGGCC	TTCATGGCCT	ATAGGCCATG	AAGGCCGGCC	TTCATGGCCT	ACTTGCCTCC	60
TTTGCTGTTT	TAGGAACAAT	TCCATGGGAG	GGTCTATTCT	GGATTAGGAA	TTCTTTCTTG	120
AGTAATTTTT	ATTACCTTTT	AATTGTGTCC	ATTTCTTTGG	GAAATAGCAA	GCTCTCCCTG	180
CTCCCGCCAA	TCTCTCCTCT	TACTTTTGG	ACCAGTTCTT	GTACCTCTTA	GCTCACCTCA	240
TTCACTGAAA	ATTGACAAAA	GAGACGTGAG	TTTCTGTACC	TGTGAGACAG	CTTATTTTGG	300
TGTCTTTATG	GTTTCTAAGC	CAAAAATCTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:981:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 91 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:981:

GAATTCGGCC	TTCATGGCCT	ATCGAGTAAT	CCTGATGTTT	TCACTTTCTC	TAATCACTTC	60
TTCTTATTTT	TGTCCAGTGG	CTTTTCTCGA	G			91

(2) INFORMATION FOR SEQ ID NO:982:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 351 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:982:

```

GGCCGCTCGT GGCTGCGTTC CCGCTGATGC TTGTGCCTGC AGAGCCTCTC CAGGCTGCTG      60
GTGGGGGAGC ACTCCCTTCC CCGAGGTCTG GACGCTGATC TCCTTTTCTT CTTCTTCCTA      120
CTCTCATAGT GCTCATAGGA AGAGCTGCCA GGGCTCCCCG ACCGCGACCG GGACGTCCTC      180
CGGCTGTGGC CCCAGGGGCC CCGCTGTGTC TCCCTGCTCT TGTCTTGGC TTTCTTCCTC      240
TTAGCTCGCT CTCGGCTGCT GGAGCGGTCA CTGGAGGACC GCCGGCTCTT GGCCTTGGAC      300
CGGTGCCTCC TGGGGCGCTC CTCACCACT GATGGTGACG CCGACCTCGA G                351

```

(2) INFORMATION FOR SEQ ID NO:983:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 488 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:983:

```

GAATTCGGCC TTCATGGCCT ACACAAATAT TGCTGTTCCA TGTTCTCCAC TTTCATTTTC      60
CACTACAAAT GAAAAGCAAT TTTTGAGACT GAATCTGTTG CTATTTTAAA GGTTATTGTG      120
GGAAACTGAG CTAAAGGAGT TAGCATCTTT ATTTTGTAT CAAAAATAAA GGTTATTTTG      180
AAATTATTAG GATTTTACA CAATTCTGAA ATCTGTTGCT TTTGTAAACA AATTGTTTGA      240
TCTTAGTGAT CCCCCTACTA CTACCACCAA TTCACTTCAC AAAGTCAGTT ATGAGTCTAC      300
CAGACTTTGT TCTGAAAAAT AGAAACAAAA CACCTGATTA AGCTCTTGAG TATGGCATAG      360
GAATTTTTTA GAAGAATGCA TTCAAGGATT CTTTTCCTTT CCTTCAGTGT CATTAATGTT      420
AAAAGAGCAG CCACTGTTTT GTTGAAACAA ACAGCTTAAC TTCAGAAATA AGAACTAGCA      480
CACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:984:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:984:

```

GAATTCGGCC TTCATGGCCT ACCTCCTGGC TCAGCAGGCT CCCTCCTTTT ACCAAGACTG      60
CTGGGACGTT GAACTCCGGT GTCTGATCAT CTCACCTACT CTCCTCCTAA CTCCCAACTG      120
AAATCCATCT CCTCTCTTCC TCCCCAACAT CCATCTCTTT CCCAACATGC CTTTGCACCT      180
AGAGCAGGTG AAGAAAGCCC ATGACTAAAA CTAAAGACTC AGAATGAAAC AAAAGGTGTG      240
ACAAGTTATT TGTGGGGAAG GTTTTCAGAT ATGTTCCAAG AGAAAATAAG GTAAAACAAC      300
CTTGTTTCATC AGACCAACAG TGCTGGAAAG GGCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:985:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:985:

```
GAATTCGGCC TTCATGGCCT ACCTGAATTG GGTGGCGAGT TCCCTGTGCA GGACCTGAAG    60
ACTGGTGAGG GTGGNTTGCT GACAGTGACC CTGGAAGGGA TCAACCTCAA ATTCATGCAC    120
AATCAGTGTG ACCTTTTATC TCTCAGTGGA CATTCCCTAA GCTAATTCCT TTCTGAGGCC    180
AGCGCATCAT CCCAGGAGCG GAAGGTTTTC ATAGAGCTGA ATCACATTAA AAAGTGCAAT    240
ACAGTTCGAG GCGTCTTTNG TCCTGGAGGA ATTTGGTAAT TACACTATTT TGCTCTTAGG    300
TCTGGACTCA CATGGCAGTA ACTCAAACCT CGGAGCTCCA GAGGAGGGTC TAGGGGACAGG    360
GAGAAGAAGA ACCTCTGTAG AGAAGTCTGG AGGAGCAGGA GTGACAAGGA AGAAAAGGGA    420
CCCCTGAGAT GAGAGCCGGG ATGTGGAAGG GAAAGATAGA TAATGGATCG CAGAAGAGCA    480
AATGGGGCCT CNGGTGGTAC TCGAG                                         505
```

(2) INFORMATION FOR SEQ ID NO:986:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:986:

```
GAATTCGGCC TTCATGGCCT ACACCTTCAC ACCTGTCCTT ACCTCCATTC TCACTTCCAC    60
TGTCTTCACT AACTCCACCA TCATCACTTC AATCTTCCCT TCCATTCTCA CTCTCTTCTC    120
ACTCACTGTC CCTCTTTCAC CTCCATCCTC ATCTCTGTCC TCCCGTCTAT TCTCCTCTCC    180
AACCTCACTT CTGTCCTCCC CTTCCTCCTG CTCTCCATCC TCACCTCCAT CCTCACCTTC    240
AACCTCACCT TTATCCTCAC CTTCAACCTC ACCTTTATCC TCACCACTCG AG          292
```

(2) INFORMATION FOR SEQ ID NO:987:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:987:

```
CTCGAGTATC CACTTGCCTC GGCCTCCCAA GGTGCTGGGA TTACAAGCAT GAGCCACCAT    60
GCACGGCTGT AGATGTAAAT TTTGGAAAGA GGAAGGCATC AAATTAGGGG TGGGGGGATG    120
GAGGTACATC CAGCTTAGCC TTCAGACCTT AATGGAAATG CTTTCTAAAC TAGCGATCCC    180
AGAGCAGTTG ACTCTCCTGA AATAAACAG GATCTGAGTA GGCCATGAAG GCCGAATTC    239
```

(2) INFORMATION FOR SEQ ID NO:988:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:988:

```

GGCAGACTGC AATACCTGCG TGGAAATAGA AGACAGAAAG GTTCAAGAC AACAGATGAA    60
TTGTGAAAGA GAGCAGCTAA GGGGTAATCA GGAAGCAGCC GCTGCCCTG ACACAATGGC    120
TCAGCCTTAC GCTTCGGCCC AGTTTGCTCC CCGCAGAAC GGTATCCCCG CGGAATACAC    180
GGCCCTCAT CCCCACCCCG CGCCAGAGTA CACAGGCCAG ACCACGGTTC CCGAGCACAC    240
ATTAAACCTG TACCTCCCG CCCAGACGCA CTCCGAGCAG AGCCCGGCGG ACACGAGCGC    300
TCAGACCGTC TCTGGCACC CGACACAGAC AGATGACGCA GCACCGACGG ATGGCCAGCC    360
CCAGACACAA CCTTCTGAAA ACACGGGGCT CGAG                                394

```

(2) INFORMATION FOR SEQ ID NO:989:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:989:

```

GAATTCGGCC TTCATGGCCT ACTTCCGGGC TTTGACTCAA TTCATGGGAA ACAGGAAAAG    60
CAAACTAGT TGATCTTGCT ACTAAGGCGG ACTGAAGTTT CTTGTCTTCA TTGCTAAACA    120
ACTTCCAAAT CACTTTGACT CTTTGACCAT ATTCATGTCT ATTTCCTATT AAAGCATCAC    180
AAAATAATGA AGGAATTCTT AGGAAGAGCC TCAAGATGCC CATGTGGCGT CTGTGTGGGC    240
TGCCTCGTCT GGTAGTTCAG GGACCCACTG GGCCATTGTA AGGGCAAAGA GAAAGCCCCA    300
GGTCTCATGG CAGGAGACAA GACTTCCACA GTGGTGAGCC AGTAAGGAAC AGGGCACGTA    360
CTCGAG                                366

```

(2) INFORMATION FOR SEQ ID NO:990:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:990:

```

GAATTCGGCC TTCATGGCCT ACATGTTTAT TATGAAGTTA TTAGTAATAC TTTTGTTTTT    60
TGGACTTATA ACTGGTTTGA GAAGTGACTC TTCCTTAGT TTGCCACCTA AGTTACTACT    120
AGTATCCTTT GATGGCTTCA GAGCTGATTA TCTGAAGAAC TATGAATTTC CTCATCTCCA    180
GAATTTTATC AAAGAAGGTG TTTTGGTAGA GCATGTTAAA AATGTTTTTA TCACAAAAC    240
ATTTCCAAAC CACTACAGTA TTGTGACAGG CTTGTATGAA GAAAGCCATG GCATGTGGC    300
TAATTCATG TATGATGCAG TCACAAAGAA ACACTTTCT GACTCTAATG ACAAGGAGCT    360
CGAG                                364

```

(2) INFORMATION FOR SEQ ID NO:991:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:991:

GAATTCGGCC	TTCATGGCGG	GGAAGAAGAC	AAGAAAATTA	ATGAAGAACT	GGAGTCTCAA	60
TATCAGCAAA	GTATGGACAG	TAAATTATCA	GGAAGATATC	GGCGACATTG	TGGACTTGGC	120
TTCACTGAGG	TAGAATACCA	TGATGGAGAA	GGTGATGTGG	CTGGAGATGA	TGATGATGAC	180
GATGATGATT	CACCTGATCC	TGAAAGTCCA	GATGATTCTG	AAAGCGATTG	AGAGTCAGAG	240
AAAGAAGAAT	CTGCTGAAGA	ACTCCAAGCT	GCTGAGCACC	CTGATGAAGT	GGAGGTCTCG	300
AG						302

(2) INFORMATION FOR SEQ ID NO:992:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:992:

GAATTCGGCC	TTCATGGCCT	AGGTGCAGCA	GGTCCTCTGG	GAAGTGTCCG	ACAAAGGAGT	60
CGCCCACTGG	AAGGTTCTGG	GCAGGCGAGA	TGCCAGAGG	TGATCCCCTGC	CCGCCCCCTCC	120
CACCTCCCTT	CCCACACAGC	CCATGGAGGT	GTTTGTGGAC	GACGAGACCA	AGCTCACGCT	180
GCACGGCCTG	CAGCAGTACT	ACGTCAAAC	CAAAGACAGT	GAGAAGAACC	GCAAGCTCTT	240
TGATCTCTTG	GATGTGCTGG	AGTTTAACCA	GGTGATAATC	TTCGTCAAGT	CAGTGCAGCG	300
CTGCATGGCC	CTGGCCCAGC	TCCTCGTGGA	GCAGAACTTC	CCGGCCATCG	CCATCCACCG	360
GGGCATGGCC	CAGGAGGAGC	GGTGAGTNCG	AACCGCCCGC	CAAGGCTGCA	GGGNGCACCA	420
CCAGGAGCCC	AGTGTCTGAC	GGCCTCCACT	TGTTTCTCCT	GCACCCCNCC	CCATCACGCT	480
CGAG						484

(2) INFORMATION FOR SEQ ID NO:993:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:993:

GAATTCGGCC	TTCATGGCCT	AAAGGAATTT	ATCTATTTAA	TCATTGAATG	TATTGAACAT	60
TCATTTGTTT	ATAATTTTGT	TTTGTTATTG	AAAATGTCTG	TAAGATTTAT	AGTGATGTTC	120
CCTTTTCTAT	TCCTGACATT	GTTAATTTGT	GTCTCTCTC	CCTCCATCCC	TCTCTCACAT	180
CTCGAG						186

(2) INFORMATION FOR SEQ ID NO:994:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:994:

```

GAATTCGGCC TTCAATGGCCT AGTGTTTCA TAAAGGGGTT GAGGCCACCA GTACTGCAGC      60
GAATTTTCCTT TTCTTCTCCC TCCTCCTTCC TTCTCTGAGC TTGCTTTTAG GGAAGGTAA      120
TCTTACAGGC TACCTATGTT TCTCTCCACC TTAATAAAT CTAAATAATG ATAGAAATTT      180
TAAGTTTTTA AATTGAGTAG TTCTGAGTAA TCCTAGAATA TTTTCCAAA TTAAATAATC      240
CTTTATTATT TGCAAGTTGG GCCAAATTTT TTTTITTTG GAGACGGACT CTTAACAATC      300
TAAGATTGTT TCAACAGGAC TTTCTTATTC CCATTCCTC GAG                          343

```

(2) INFORMATION FOR SEQ ID NO:995:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:995:

```

ATCTTTAACA GAATTATTAT TATTTAATAT AGAAGCACAA GCAGGGGAAA AATACGTCAT      60
CAAAATTTTC AAGTAGTCAA CTCATTATTG GAGCCATTTT ATTTTATAAT TTATTTATC      120
AGCTGGTTCA GAATTCAAAA GGGCATGTAA TGAAGTCGCT ATCCTGCTTC TGTTTCCCAG      180
CTATCCAGCT TCCCTCCCTG GAGGCAAACA GTGTCATTGG TTTTCAATAT ATCCTTCCAG      240
ATGTATGTTA TCCGTAACTC TCGAG                          265

```

(2) INFORMATION FOR SEQ ID NO:996:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 77 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:996:

```

GATTCGGCTT CATGGCCTAC AGCAGACACC CTCCTGCCCA CACCTACTTG TCCGCGCGGT      60
CTGAGGTTTG CTTGAGG                          77

```

(2) INFORMATION FOR SEQ ID NO:997:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:997:

```

GAATTCGGCT TCATGTCGCT CTTCTGCAG GTCAACATGT ACAGCAGCGT CTTCTTCCTC      60
ACCTGGATGA GCTTCGACCG CTACATCGCC CTGGCCAGGG CCATGCGCTG CAGCCTGTTC      120
CGCACCAAGC ACCACGCCCC GCTGAGCTGT GGCTCATCT GGATGGCATC CGTGTGAGCC      180
ACGCTGGTGC CCTTACCGC CGTGCACCTG CAGCACACCG ACGAGGCCTG CTTCTGTTC      240
CGGGATGTCC GGGAGGTGCA GTGGCTCGAG                          270

```


(2) INFORMATION FOR SEQ ID NO:998:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:998:

```

GAATTCTAGA CCTGCCCCCA GGCCACAGTC ACACCCCCCA GGAAGGAAGA GAGAATGGAT      60
TCTGCAAGAC CATGTCTACA CAGACAACAC CATCTTCTGA ATGACAGAGG ATCAGAAGAG      120
CCACCTGGCA GCAAAGGTTT TGTCACTCTA AGTGATCTTC CAGGGTTTTT AGGTGATCTG      180
GCCTCTGAAG AAGATAGTAT TGAAAAAGAT AAAGAAGAAG CTGCAATATC TAGAGAACTT      240
TCTGAGATCA CTCACAAACT CGAG                                         264

```

(2) INFORMATION FOR SEQ ID NO:999:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:999:

```

GAATTCGGCT TCATGGCCTA GCGGATTGTA ACTGCCTATG AGAATAGCTC TCAGCATGAT      60
CCCAGTTCAA ATAACGCTAT GCTTGGGGTT CATGCATCAG CTTAGCGAT CATCCAGTAT      120
GGAAAAATCG CCCGGAAACA AGGACTGGTC AATGTAGCTC TGGATATATT AAGTCGGATT      180
CATACTATTC CAACTGTTCC TATCGTGGAT TGCTTCCAGA AGATTCGACA GCGTACTCGA      240
G                                         241

```

(2) INFORMATION FOR SEQ ID NO:1000:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1000:

```

GAATTCGGCC TTCATGGCCT AGAATTGAAT TTAGACTTTA CAGAGTTACT GGTTCGTAAA      60
TCTTTGAGTT GTTTAAATTT TAATGTTAGA GTTTTACTGT TTGATCAGCA CATTTTTTTT      120
CTCTTTTGTC TATAGCCCCG AAATGTTTGA GACGCGGATT AAGGAGAGCA CCTCCTCTAA      180
GAGCCCTCCC AGAAAAATAA ATTCATCACC CAATGTTAAT ACTACTGCAT CAGGTGTTGA      240
AGACCTTAAC ATCATTCAGG TGACAATTCC AGATGATGAT AATGAAACAC TCGAG         295

```

(2) INFORMATION FOR SEQ ID NO:1001:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1001:

```
GAATTCGGCC TTCATGGCCT AGATATTTAG AAATTTTGTG TATTATATGG AAAAAGAAAA    60
AAAGCTTAAG TCTGTAGTCT TTATGATCCT AAAAGGGAAA ATTGCCTTGG TAACTTTTCAG    120
ATTCCTGTGG AATTGTGAAT TCATACTAAG CTTTCTGTGC AGTCTCACCA TTTGCATCAC    180
TGAGGATGAA ACTGACTTTT GTCTTTTGGA GAAAAAAAC TGTACTGCTT GTTCAAGAGG    240
AGCTCGAG                                         248
```

(2) INFORMATION FOR SEQ ID NO:1002:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1002:

```
GAATTCGGCC TTCATGGAGT CAGCCTTCCA GTCCTCATCT CAGAAATTGA CTAGCCAGAA    60
GGAACAGAAA AACTTAGAGT CTTCAACAGG CTTTCAGATT CCATCTCAGG AGTTAGCTAG    120
CCAGATAGAT CCTCAGAAAG ACATAGAGCC TAGAACACG TATCAGATTG AGAACTTTGC    180
ACAAGCGTTT GGTTCCTCAGT TTAAGTCGGG CAGCAGGGTG CCAATGACCT TTATCACTAA    240
CTCTAATGGA GAAGTGGACC ATAGAGTAAG GACTTCAGTG TCAGATTTCT CAGGGTATAC    300
AAATATGATG TCTGATGTAA GTGAGCTCGA G                                         331
```

(2) INFORMATION FOR SEQ ID NO:1003:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1003:

```
GAATTCGGCC TTCATGGCCT ACAGTATTGG ACTTTCAGAA GCTGAACAGA TGATGGGTGA    60
GCAAACTGGT TTAGCAGACC CAAGAGAGCT GAATCCTAAG CCAGCAAATA GAGAAATCCA    120
AGATTCAGCC CAAATTATGC TTAGAATTC CTCAAAGGCT CAGAAACTGG CTGCACTAGT    180
TCCCCCGACA GGAAGCATGG ATTGAGGAGG TACCAAACCC ACTCCCCACC AAAAACCCAA    240
AACTCGAG                                         248
```

(2) INFORMATION FOR SEQ ID NO:1004:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 281 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1004:

```
GAATTCGGCC TTCATGNCCT GNGAAGAGN AACAAAGAGAA CAAAAAAAN ANAAGTCGAG      60
AGTCAGTAAT TTTCTTACTT AATATTGNGG GGATNTTACT TNATACATAA AGTTANTGAA      120
ACTAGAAATA GTGGTTTAAT ATATTACTTN TAATTCAAAA ATTAACCTAT ATTTACAGAT      180
GCTCTACACA GTTCTTTGT GAATCCACCT ATGGTTTTAT TTTNATTAAT TTTTNTTNC      240
ANAGCNATGA AATGTTGCTT TGTGGNGCCA GCGCACTCGA G      281
```

(2) INFORMATION FOR SEQ ID NO:1005:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1005:

```
GAATTCGGCC TTCATGGCCT ACATAAACCA TCACATTTAA TCTGGCAGCT GCCCTGTTTT      60
TGAGGTTTTT TTTGTATTTA TCTTCTTTG GTAAATGAAA GCTCTCATCT TTGTTTACAG      120
GCCAGAAAAA CTGAAAAAGA CACAGGCTCT TCCACTTACT GGATGTTTGA CAAAATGATA      180
TTTTGGGGCC AAAACATTGG CATTACTGGT AAACCTGGTA GAGATTCACT AACTCAGACT      240
TTATTCAGA TCTCCTGAAA AAATAATCTG CATTAACATG ATGACTCGAG      290
```

(2) INFORMATION FOR SEQ ID NO:1006:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1006:

```
GAATTCGGCC TTCATGGCCT AAATTTTCAC ATATATGTAT ACTTAATTTT CAGCAATTAT      60
GACACAATAA AAAGAATATG CAAATTTATT GTTGTTCAG AAGGTTTTGC AGGACTGGGA      120
ACGCTTTAGT GTCATCAACA GTAAACCTCA GATACTGTTC TGCACAGTTC AGAAGTACCA      180
TACCAGGTAT TGTGAGTGGC AGAAGCGCCA GGGACAGAG ATGCTTCTGG TAGATGAGGG      240
CCAGAGAAAC CAGCTCTCCT CCATTTTGAC AGCAATTCT CACTGTGGCC ATTTGCCTC      300
CATTATGTTT TGAGAGGAAC GCTCGAG      327
```

(2) INFORMATION FOR SEQ ID NO:1007:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1007:

```
GAATTCGGCC TTCATGGCCT AAAAAAAT ATAGTGTTTT ATGCCACAGA GAATCAAGTT      60
```

GCATTGTGTA TACTAAATGG TCAAGCATTT TCAAGAACAT GACAAAATAA AAACATACAA	120
ATTTATATCT CAAAAGGAAA GTATCTTCTT TCATGTCAGA TCATCAGCAC AGAAGCCCTC	180
GATGCATGCA AAGGCAAGCA CAGGCTCTGC AGATGAGATG TGAAGAAGCA ATTAGGGAAA	240
TTCTCGAG	248

(2) INFORMATION FOR SEQ ID NO:1008:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 460 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1008:

GAATTCGGCC TTCATGCCTA CATCAAACCC TTTTCTTGTA GCAGCACAGG ATTCTGAGAC	60
AGATTATGTC ACAACAGATA ATTAAACAAA GGTGACTGAG GAAGTCGTGG CAAACATGCC	120
TGAAGGCGCTG ACTCCAGATT TAGTACAGGA AGCATGTGAA AGTGAATTGA ATGAAGTTAC	180
TGGTACAAAG ATTGCTTATG AAACAAAAAT GGACTTGTT CAAACATCAG AAGTTATGCA	240
AGAGTCACTC TATCCTGCAG CACAGCTTTG CCCATCATTT GAAGAGTCAG AAGCTACTCC	300
TTCACCAATT TTGCCTGACA TTGTTATGGA AGCACCATTG AATTCTGCAG TTCCTAGTGC	360
TGGTGCCTCC GTGATACAGC CCAGCTCATC ACCATTAGAA GCTTCTTCAG TTAATTATGA	420
AAGCATAAAA CATGAGCCTG AAAACCCCCC AGAACTCGAG	460

(2) INFORMATION FOR SEQ ID NO:1009:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1009:

GAATTCGGCC TTCATGGCCT ACGACAAGTT TTAAATTTA CTCTGAGTA TGGTTCCAGT	60
GATTTACCAG AAAAACCAAG AAGACAGGCA CAAAAAGCA AACGGCATTG GGCAAGATGG	120
ATTATCAACT GCAGTACAGA CTTTATAGTAA TAGATCTGAG CAACACATGG AGTATCACAG	180
TTTCTCAGAG CAGTCTTTTC ATGCCAATAA TGGGCACGCA TCATCAAGCT GCAAACCTCGA	240
G	241

(2) INFORMATION FOR SEQ ID NO:1010:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1010:

GCGATTGAAT TCGACCACCT TGTTCAAATT TGTATTATT TTTCTACTTT TGTATTGATT	60
CTGTTAATTC TTATCTATTG GTTCAGCTTA CTTTTTATG TTGGTCACAT TTCTCTTCAT	120
TGATTGTGTT AATTTTCTTA TGTTGATAGA CACATTTTAT GTTCATCACT TTTTCTCTC	180

CTCCTTCAAT TATTATCCTT CTGATTTCCT TTTGTTTCT CATAGTGTG GCCATCTCGA 240
G / 241

(2) INFORMATION FOR SEQ ID NO:1011:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 338 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1011:

GAATTCGGCC TTCATGGCCT AGGCCACAAC TCAAAAGCAT TATCTTTTTT AGGGTTAGTA 60
 GAAATTGTTT TATGTTGAT CGAGGTTTGT TTGATTGTCA AAATGTACAG CCACAGCCTT 120
 TTAATTTGGG AGCCCTGTT GTCATTCAAA TGTGTACCTC TACAGTTGTA AAAAGTATTA 180
 GATTCTACTA TCTGTGGGT GTGCTTGCCA GACAGGTCTT AAATTGTATA TTTTGTGAA 240
 AAGTTTATAT ACTCTCTTAG GAATCATTGT GAAAAGATCA AGAAATCAGG ATGGCCATTT 300
 ATTTAATATC CATTCATTTC ATGTTAGCGG AACTCGAG 338

(2) INFORMATION FOR SEQ ID NO:1012:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 97 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1012:

TGAATTCTAG ACCTGCCTCG AGCTCCAGCT GCCAACACCC TTGGACACAA TATCCAGTC 60
 TCCACTGCC ATCTCATGTG GTTGCAGGNT CCTCGAG 97

(2) INFORMATION FOR SEQ ID NO:1013:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 412 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1013:

GAATTCGGCC TTCATGGCCT ACACATTCTG GGGGAAAAAA ACTGGAATTG TTTGTATTTT 60
 GTTTTTTTGG GGGGGATCT TTATGTGAAA AATCAGAGCT ACTTGTTACC ATAAGCCCTT 120
 ACTATCAACA AGATAATTAT TTGTAATCAC TTTTATATCC CAGGTGGAA TTGCTTTCCC 180
 CTTCTAAGTT ATCTCCCTT AATAATATTT ATGATACCAG GACAGTGAGG GTATAAGAGC 240
 AAATGTAGTG AGGTATTCAA AAATCCTGCA TATATGGACT CAAAAGTTCT TTAGTTATTT 300
 GAATTATATA TAGCTATATT ATTTTATTAG CTGGGGTTGT CAGAAGATTG CCAATTTTAA 360
 GACTAAAGAG GAGAGAGATA AGTAATAAAA ATAGAGGAGG GGTACTCTCG AG 412

(2) INFORMATION FOR SEQ ID NO:1014:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 218 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1014:

```
GAATTATGTC TCCCATCTGT GCTTTTCCTA AGTGGGGCTC CCGTGCCGTT CACCTCACAT    60
TCCTGGTGTG TTACTTGGCA GGCAC TCCCA CCACTCCGAA AGGGAGGCCC TTCCTGGGAG    120
GGAGGCAAGA AGGCTCCCA GCCCCTTTC CCCCTTTCCT GGGCCTGCGT TCCCAGGGCC    180
TCCCCAGCCC CTCTGGCTAC CCCGTGACCT GCCTCGAG    218
```

(2) INFORMATION FOR SEQ ID NO:1015:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 513 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1015:

```
GAATTCGGCC TTCATGGCCT ACCTTATTAC CAGACAACCT TAACCAAACC ATTTACCCAA    60
ATAAAGTATA GGCGATAGAA ATTGAAACCT GGC GCAATAG ATATAGTACC GCAAGGGAAA    120
GATGAAAAAT TATAACCAAG CATAATATAG CAAGGACTAA CCCCTATACC TTCTGCATAA    180
TGAATTAAC T AGAAATAACT TTGCAAGGAG AGCCAAAGCT AAGACCCCG AAACCAGACG    240
AGCTTCGGGG GAAGTATGTA GGAGTTGAAG ATTAGTCCGC CGTAGTCGGT GTACTCGTAG    300
GTTCA GTACC ATTGGTGGCC AATTGATTG ATGTAAGGG AGGGATCGTT GACCTCGTCT    360
GTTATGTAAA GGATGCGTAG GGATGGGAGG GCGATGAGGA CTAGGATGAT GGCGGGCAGG    420
ATAGTTCAGA CGGTTTCTAT TTCCTGAGCG TCTGAGATGT TAGTATTAGT TAGTTTTGTT    480
GTGAGTGTTA GGAAAAGGC ATACAGTCTC GAG    513
```

(2) INFORMATION FOR SEQ ID NO:1016:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 74 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1016:

```
GAATTCGGCC AAAGAGGCCT ACCAAAATAA AAACAGAAAT TATGAGATTG CCTCAACTCC    60
CACATATGCT CGAG    74
```

(2) INFORMATION FOR SEQ ID NO:1017:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 361 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1017:

```
GAATTCGGCC AAAGAGGCCT AAAGACCTGA GGTCCAGGAT GAGCTCTTTC CCACAGAAAC      60
TTTGACAAAT GTGTGGACAA TAAAGNAGCA CTGCTTCCCT CATTCACCAT AGCTCAGCTG      120
GATTATAGA TTTAAATCTT TTAACGAAAA AGTTCATGTT GAGGTATTTA GATACTTTTT      180
AGAGGGTTAA ATACCAAGTT ACAGTGACAT TTAAACCGAG TGTCTAGAAC ATGAAGGCAA      240
AGAGTCTGCT ATTTCGAGGT AAATTTTATC AGTGTGTTGAA AGGTGAAGCA TTTGCTCATG      300
AAATGTTGAA TGAATTCTG TGACATGGCA CGAGGGTGGT AAGAAAAAGT GGGAACTCGA      360
G
```

(2) INFORMATION FOR SEQ ID NO:1018:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 407 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1018:

```
GAATTCGGCC AAAGAGCTAC GAGAGTGTC TGAATATCT CCGAGAGTCC TTCAGTGAGA      60
GGTTGTTTTT TTTTCTATG GCTGGTGTC CTTCTCTGG AGCATCTTCA TCGTTTCATC      120
ACAGTCACTT TCTAACTGGA GTCAGTAAGT TCACCTTCTT TAAGCTTCCC AGGCTGCAGA      180
TACAGAGAGT GTCCACATTC CACAGTCAGC TATTTCTACG ATCACTCCAT TTACGCTTGG      240
TTCAAATTC ACTCCCAGTG TTACCACTTC TCATTCTTTT GCTGTGTTTC ATCTGGGCCA      300
TTTGCTTCTT ATGATTACCT GTTTTGTAA ACTGTCATGT GGGTTTATCC CTGGGAGACA      360
AGGAGACAGC ACAACCCCTT GGTGCTGT CTGTGAGCGA ACTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1019:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1019:

```
GAATTCGGCC AAAGAGGCCT ACTAAGTTCT GTGAAGTGTA TGTAGCATCT GGGCTATAGA      60
TTTGGAGCTT TTAGTGACTC TNGAGAGTGG TGAAGGAGTA TCTGCAGCTC TGATGACAGG      120
NACAGAGAGA GAGAGAGAGA GATGGGTATG CCATCCGTGG ACACCAGGAA GAGTACCGAG      180
GACTGCTGTA GGCTCCTTCA GTTCTAGTTT CCAACTCAA GCAATTTTAA AGTTTTTGTG      240
TAATTATGNN TCGGCTCTGC TAAGANANNA AGGTACCTTA CATAAGTCCC TCAAAAGACT      300
TGTGTGTTTG AAGATGGCGC CCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1020:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1020:

GAATTCGGCC AAAGAGGCCT ATGAATGCTA TATACCTTT TTATATCAA AGTCTCAAGC	60
ACTTATTTT ATTCTATGCA TTGTTGTCT TTTACATAAA TAAATGTTT ATTAGATTGA	120
ATAAAGCAAA ATTACTCGAG	140

(2) INFORMATION FOR SEQ ID NO:1021:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1021:

GAATTCGGCC AAAGAGCTAC GGCCAAAGAG GCCTAGACTC GCCGCTGNTC TCACACCAGT	60
GTGGAACGTC CCCGCCNTC CCCTTGGGTC CCTTATCTTA GGGGACCGGG ACGTCCATCC	120
CTTCTGCAGT GGCAGCNTCT GAGCCAAAGC GCCTCTCCA GAAGCCGGAC TTTCCAGGAC	180
CCTCACTCCC AGCCACACCC TGACACGGCC TGACTGGGGT CTCCTGTGAG TCCCATGCTC	240
GGCTTTGTCT GACACCTCCC AGGACAAGAC CGTCCCTTCT CCCCAACTG GGCTCTCCAC	300
CAAGAGCCGC GTTCACCCAC GGGGGAGTGG GCTCCACACA GGCCAGTCCT CGAG	354

(2) INFORMATION FOR SEQ ID NO:1022:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 633 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1022:

GAAAGAGGCC TAATCGTCAC ATCCATCAGA GGATTGCTGA TCACTCTTAC CAAGTTCTTT	60
TATGCCATCT CTAGCAGTAA GTCCTCCAAT GTCATTGTCC TGCTATTAGC ACAGATAATG	120
GGCATGTACT TTGCTCCTC TGTGCTGCTG ATCCGAATGA GTATGCCCTT AGAATACCGC	180
ACCATAATCA CTGAAGTCTT TGGAGAACTG CAGTTCAACT TCTATCACCG TTGGTTTGAT	240
GTGATCTTCC TGGTCAGCGC TCTCTTAGC ATACTCTTCC TCTATTTGGC TCACAAACAG	300
GCACCAGAGA AGCAAATGGC ACCTTGAAC TAAGCCTACT ACAGACTGTT AGAGGCCAGT	360
GGTTTCAAAA TTTAGATATA AGAGGGGGGA AAAATGGAAC CAGGGCCTGA CATTTTATAA	420
ACAAACAAAA TGCTATGGTA GCATTTTTC CCTTCATAGC ATACTCCTTC CCCCTCAGGT	480
GATACTATGA CCATGAGTAG CATCAGCCAG AACATGAGAG GGAGAACTAA CTCAGACAA	540
TACTCAGCAG AGAGCATCCC GTGTGGATAT GAGGCTGGTG TAGAGGCGGA GAGGAGCCAA	600
GAAACTAAAG GTGAAAAATA CACGAACTC GAG	633

(2) INFORMATION FOR SEQ ID NO:1023:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 665 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1023:

```

GAATTCGGCC AAAGAGGCCT ATCTGCGAG TGGAGTGTCC GCTGTGCCC GGCCTGCACC      60
ATGAGCGTCC CGGCCTTCAT CGACATCAGT GAAGAAGATC AGGCTGCTGA GCTTCGTGCT      120
TATCTGAAAT CTAAAGGAGC TGAGATTTCA GAAGAGAACT CGGAAGGTGG ACTTCATGTT      180
GATTTAGCTC AAATTATTGA AGCCTGTGAT GTGTGTCTGA AGGAGGATGA TAAAGATGTT      240
GAAAGTGTGA TGAACAGTGT GGTATCCCTA CTCTTGATCC TGGAAACCAGA CAAGCAAGAA      300
GCTTTGATTG AAAGCCTATG TGAAAAGCTG GTCAAATTC GCGAAGGTGA ACGCCCGTCT      360
CTGAGACTGC AGTTGTTAAG CAACCTTTTC CCACGGGATG GATAAGAATA CTCCTGTAAG      420
ATACACAGTG TATTGCAGCC TTATTAAAGT GGCAGCATCT TGTGGGGCCA TCCAGTACAT      480
CCCAACTGAG CTGGATCAAG TTAGAAAATG GATTTCTGAC TGAATCTCA CCACTGAAAA      540
AAAGCACACC CTTTAAAGAC TACTTTATGA GGCACCTGTG GATTGTAAGA AGACTGATGC      600
TGCTTCAAAA GTCATGGTGG AATTGCTCGG AAGTTACACA GAGGACAATG CTTCCCAGGC      660
TCGAG

```

(2) INFORMATION FOR SEQ ID NO:1024:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 549 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1024:

```

GAATTCGGCC AAAGAGGCCT ACTTGATTG GATTCACATT GCTTTCATT CTAAAAATGC      60
TTCACCTCAG GTTCTTGGTC TTGGAAATAA ATTTCAAGGT GCATTGTATC CATTTTAAGC      120
TGCTTTATTT TATTTTCACT TGTATGAGCA AATTCTTGGG GGAGCTTTGC TTTTCTTCTG      180
CCAGAAAAAC AAAAGGGGGA AATGAAAATC TTTTGGGAA TGAGTTCTGT GGGTTTCTT      240
AACAGCCACC ATGTTTATTA GTTACATTGT GTTTTGGCCA ATCAGTGCAA TGTAACAAAT      300
TTTACAGTTA ATTGCTTTCA ATTGAGTCAG TAAACCTGTG ATAGATAATT TATTTAACTG      360
GAAAACCTAG GTACCCATAA GAAAAAAGAT TCATTCTCTG TGAAAACCTG AGGAATCTGT      420
TGTGTTTTTC ATTTGAATAT GCTCTACTTC TGCTCTAGTA TTTGTTTGG AATATATTTT      480
GTGGCTCTAA TTAAGTATT TTTAAAAACC CTACCTCCAT TAACAGTTGG TAAAGGCCCC      540
CTTCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1025:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1025:

```

GAATTCGGCC AAAGAGGCCT AGTTAAGTCT GAACTAGTCT TTTCCTTGT GATGTGGTTG      60
GAAAGTCTTC CCTGTTCCAA GGACTCCTCG AG

```

(2) INFORMATION FOR SEQ ID NO:1026:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1026:

GAATTCGGCC AAAGAGGCCT AGTTAAAAAC TAATATTTAT ATGACAGAAG AAAAAGATGT	60
CATTCCGTAA AGTAAACATC ATCATCTTGG TCCTGGCTGT TGCTCTCTTC TTACTGGTTT	120
TGCACCATAA CTTCTCAGC TTGAGCAGTT TGTTAAGGAA TCAGGTTACA GATTCAGGAA	180
TTGTAGGGCC TCAACCTATA GACTTTGTCC CAAATGCTCT CCGACATGCA GTAGATGGGA	240
GACAAGAGGA GATTCTGTG GTCATCGCTG CATCTGAAGA CAGGCTTGGG GGGGCCATTG	300
CAGCTATAAA CAGCATTGAG CACAACACTC GCTCCAATGT GATTTTCTAC ATTGTTACTC	360
TCAACAATAC AGCAGATCTC GAG	383

(2) INFORMATION FOR SEQ ID NO:1027:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 403 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1027:

GAATTCGGCC AAAGAGGCCT ACATGTGGAC TGCACTGTTT ACTTTTGGTT GGACTGGGAC	60
AATTTGGGGA ATATCTACTA TGTTTATTCT TCAAGAACCC ATCATCCCAT TAGATGGAGA	120
AACCTGGAGT TATCTCATTG CTATATGTGT CTGTTCTACT GCAGATTCT TAGGAGTTTA	180
TTATGCCCTT GACAAATTCC ATCCAGCTTT GGTTAGCACA GTACAACATT TGGAGATTGT	240
GGTAGCTATG GTCTGCAGC TTCTCGTGCT GCACATATTT CCTAGCATCT ATGATGTTTT	300
TGGAGGGGTA ATCATTATGA TTAGTGTTTT TGTCCTTGCT GGCTATAAAC TTTACTGGAG	360
GAATTTAAGA AGGCAGGACT ACCAGGAAAT ACTACGACTC GAG	403

(2) INFORMATION FOR SEQ ID NO:1028:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 71 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1028:

GAATTCGGCC AAAGAGGCCT AAAACCGAAA CTTGATGAA AATGAAATTC CTCAAGAGAA	60
TGGCACTCGA G	71

(2) INFORMATION FOR SEQ ID NO:1029:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 349 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1029:

GAATTCGGCC AAAGAGGCCT AGAAACATGT CTAAGGTNGC ACACAGCTAG TANGCGTTAG	60
AAACGTGTCT CAAACCCAAG AGGTCTGGCT CTGGCATCCG TGATCATAAC CACTNGCTTT	120
GCCTGATCTA ACAGTAAAGA TGGATGAAAA AATAAATCAA GTGTGATGAG TGTATATAA	180
GAAAGGGGAA ATAGCAGGGT TCAGTGTGGA ACATAGGAGA GTGGGCCTTC ATTCCCTCCA	240
GTTGAGGGCC AAATAAGGCA TCCCTGAGGA AGAGACATTA AGCTGAGATC TGAAAGGTGA	300
GCCTGAATAA GTTAGGTGAA GGAGCATGAG TAAAGGGAAG CCGCTCGAG	349

(2) INFORMATION FOR SEQ ID NO:1030:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1030:

GAATTCGGCC AAAGAGGCCT ACTGATGATA ATAAACAGA GCTTTACTTG GGAGAAATTA	60
GCCTTGAAGG TGTGACATCC AAAACAATTT TTTTAAAAA ATTTAGACAA CTAAAAAGGG	120
AAATGTCAA AGGGAGAAAC TTAATAACA AAAGGAAAGT AGTCAGAGAA TCAGAGAGAA	180
AATATGAACA GAACACAGTA AAAAGGAATG GCTACAAGAG GGATCAGCAA CTCGAG	236

(2) INFORMATION FOR SEQ ID NO:1031:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1031:

GAATTCGGCC AAAGAGGCCT ATTAGAAATA AATATCTTCC TTCAATAGAT GAAAATGAAA	60
ATACAGAAAA AAGAGAGCAG TTGTCAAATT TAAAAGTTT GAATCACTCC CCAATGTCTG	120
ATGCCTCTGT CAATTNGAC TACAAATCTC CATCCCATT TGACTGCAGC ACTGATCAAG	180
AAGAGAAAAAT TGAAGATGTT GCTAGTCACT GTCTGCCTCA GAAGGACCTG TATACTGCTG	240
AAGAGGAAGC TGCTACCCCTT TTTCTAGGA AAATGACATC CCATAATGGG ATGGAGGACA	300
GTGGAGGAGG AGGTACTGGA GTGAAGAAGA AACGGAAGAA AAAGGAGCCA GGAGACCAAG	360
AGGGTGCAGC AAAGGGAAGC AAGGACAGAG AGCCCAAGCC AAAGAGGAAA CGAGAACCGA	420
AAAGACCAAAA GGAAGAGCTC GAG	443

(2) INFORMATION FOR SEQ ID NO:1032:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1032:

GAATTCGGCC	AAAGAGGCCT	AATAAGAGC	AAAAAATGT	TAATGTCAAG	TCAAATTGCC	60
TGTAAATGAC	TTAAGGAATA	TGTTAATGAT	CTTGCTCCAA	ATGAATAATT	ATAAAGCAGG	120
TGCACTGGAG	ATATGATCAT	TTAACTGAAA	GAAAACAGCT	TCTAATGGCT	TCAATAACCA	180
AGATAATGGT	GATATTGGAG	AAGCCTGTTA	AACTCATTGT	TCATGCCATT	CATTTAATAC	240
ACAAGAGAAC	TTCAGATGGA	ATCTCCCTGT	GGACTCATTG	CCCTGCTTAT	TTAAATAGCA	300
GTTAATTTAA	ACACACACCC	AAGTCAAAAC	TGCATTATTT	CTAACACACC	TCTTTCTAAT	360
AAACTATGTT	CTCCAATAAC	AGAACCCCTG	TCTCGAG			397

(2) INFORMATION FOR SEQ ID NO:1033:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1033:

GAATTCGGCC	AAAGNGGCCT	ATTTTAAAAA	TCACTTTAAG	NATCCAATAG	AGAACAACAA	60
AGCCATATTG	AGATGCAGGT	TTTAGGAATT	TGGTAGTAAT	CCCTCACAAG	GTCAGACTTG	120
ATCTCCTGGA	CAATCAGGCG	ATGCTAGTCA	GCTTTCATGA	CTCAGCAAAG	CTACAAATTA	180
TGTATTTTGG	CTTTTGTGG	AAATTGCCAA	CCCTACAGAT	AGCAAACGTC	TCCTCGGTTG	240
TCAAAAAGTA	AGAGTAGTTT	TTAGAATTCT	GCCTTTGGGT	CTGTAGAAT	GAAATATTTA	300
CAAGATTGTC	TATTTGTAA	CATTTAGCT	CCTTCCTTGT	TCCTTCAGTC	TTGCTGCTGT	360
GCACACCACC	AG					372

(2) INFORMATION FOR SEQ ID NO:1034:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1034:

GAATTCGGCC	AAAGAGGCCT	AAATATGTTT	TTTCTGCTT	TTATAACTGT	AAAATGGAAT	60
GTTCTTCTTA	CCTTTAACCT	TATGATTGAG	CTGTCCATAT	CAGGTTTTTT	TTTCTACTGA	120
CTATTTATTG	GGACTAGCTC	ACTTTATTAA	TTATGCATCC	TGATATCTTA	TAGAATGGAT	180
AGTGATTTTC	AATATTATTA	ATTAAGTGGG	CCTTTGTTAG	ATATAAAGCA	AGATACCTCC	240
AGTAGGTCCT	GTTAGCAGTA	AGTTTTATAT	TGTGGAGGTG	AACAAGGTAT	TTTTGTGTAA	300
ATCAGTTTAC	TAAATTGTAT	TATTTTCAAG	CTAGATTGTG	ACGGTAAGGC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1035:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1035:

GAATTCGGCC TTCATGGCCT ACGTCTCAGC ATTATGCATT CCAGTTGGTT TTTCCCCATG 60
 CTTTCCTGA GCTGTATCCA AGTGAGTCGT ATTAATTTC A GAGGAGTATT T 111

(2) INFORMATION FOR SEQ ID NO:1036:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 560 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1036:

GAAATTCGGC CTTATGGCC TANATGAACA AACTCCAGA TACCATTGAT AAGAAATTTT 60
 GCATCAAGAA GGGCTTCTGA AAAGACCCAC GTGCTCCAGT CCCAGCTCCA AAAGCCACTG 120
 ATGACAAGGG CCCCACTGTG GAACCTAAGT CTGGGAGCCC CCTGACTTCT GGCTGGCCAG 180
 AGCTGCGGTC CGTCAAGGGC TTGCCTCGCT TCAGAATCAG TAACATAGAT CTTAAGTGCA 240
 ATTGATTAAT AAGCAGTGAG TTAGTGTAGC TTCCTTTAGC TCTACCGAAC TCTTTTAA 300
 AACTCAAAT TGAGCAGCCT TAGAAAAGGG GTTGGGGGGT GGAACCACAG GCCATTTCTC 360
 TAAGTGGGCT GCTGTGAAGT TTTAAATGAA AGCTCTAGCT TTAGGAGCTT GAGCCATTT 420
 CTGACTGCAC TGGCCTGGCA GTCTGGCTGC TGCAGAAGAG TTTTAAAGA GGGGTCGGAG 480
 CCCGCCGTG AGAGCGGGT TTCTCACCAT GTGGGGCTGT ACTACGTGGT GGTCTTGTT 540
 TCTCTTCACA GAAATGCTCT 560

(2) INFORMATION FOR SEQ ID NO:1037:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1037:

AAATTGGGCA GTGGTAGCAC CTGACCCAGG GCTGCTGTGA GGCCCCCTG GGCTGAAGCA 60
 CATGTGGTGC AGAGGGCCAG GTTGGGGTGT GAGTGCCAGT TCCCACTGGC CTTAGGCCCC 120
 ATCCACTGCT GCTCCCAGGG CCATGGGTGA GCCTTTCCAC TTCTTATAAA GTAGAGAAAA 180
 GTATTTATAG TATCTTCTTT GGTAATTCCT TTTCTTGGT GATGTTTCATC TGCAGTTCTG 240
 TACATTTTTT CAGATCTTCT GATGAACAAA TTCCTTTAAT TTGTCATGTC AAACCTGTTA 300
 ATATTTTCCT TTGTGACTCG AG 322

(2) INFORMATION FOR SEQ ID NO:1038:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 517 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1038:

GAATTCGGCT	TCATGGCCTA	CACTGTAGCA	AATTGCGTTG	GAAAAGAAGT	AGCTCCACAT	60
GTCAAGAAGC	ATGGAAGCAA	ATTTGTCCA	GAATCTCTTA	AAAAAGACAA	AGATGGGAAA	120
TCTCCTCTGG	ATGGTGCTAA	TGGTTGTAGC	AGCAAGTAGT	GTTCAAGGAT	TTTCAACTGT	180
CTGGCAAGGA	TTGGAATGTG	CAGCTAAATG	CATCGTTAAC	AATGTTTCAG	CAGAAACTGT	240
ACAAACTGTC	AGATACAAAT	ACGGATATAA	TGCAGGAGAA	GCTACCCACC	ATGCGGTGGA	300
TTCTGCGGTC	AATGTTGGCG	TAATGCCTA	CAATATTAA	AACATTGGTA	TCAAAGCAAT	360
GGTGAAGAAA	ACTGCAACAC	AAACAGGACA	CACTCTCCTT	GAGGACTATC	AGATAGTTGA	420
TAATTCTCAG	AGGGAAAATC	AAGAAGGAGC	AGCAAATGTC	AACGTGAGAG	GGGAGAAGGA	480
TGAGCAGACG	AAGGAAGTAA	AGGAGGCCAA	ACTCGAG			517

(2) INFORMATION FOR SEQ ID NO:1039:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1039:

GAATTCGGCC	TTCATGGCCT	ACAGAATGAA	GAAAGCAAGC	AGGAGTGTG	GCTCAGTGCC	60
TAAAGTGTCT	GCAATAAGTA	AAACGCAAAC	AGCAGAAAAA	ATTAAACCTG	AAAACAGCTC	120
TTCAGCATCT	ACGGGAGGCA	AACTTGTGAA	ACCTGGAACA	GCAGCATCAT	TGTCAAAGAC	180
CAAGAGCAGT	GATGACCTTT	TAGCTGGAAT	GGCCGGAGGG	GTAACGGTGA	CTAATGGTGT	240
TAAAGGAAAG	AAAAGCACCT	GCCCATCTGC	AGCACCTTCA	GCATCTGCCC	CTGCCATGAC	300
CACCGTGGAG	AACAAATCCA	AGATTAGCAC	AGGCACAGCT	TCTTCAACCA	AGCGGAGCAC	360
TTCTACAGGT	AATAAGAAT	CCAGTTCTAC	TAGAGAAAGA	TTACGTGAAC	GTACCCGATT	420
AAACCAGAGC	AAAAAACTAC	CTTCTGCAGG	TCAGGGAGCT	AATGACATGG	CATTGGCCAA	480
ACGTTCCCGC	AGTCGAAGT	CTACAGAAATG	TGACGTTTCT	ATAAGCCTCC	CTATAGTGAG	540
TCGTATTA						548

(2) INFORMATION FOR SEQ ID NO:1040:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1040:

GAGGAAATGG	CCAAACAGAA	AGCAGCTCCT	GAAGCCAAGA	AACAGAAAGT	GGAAGGCACA	60
GAACCGACTA	CGGCTTTCAA	TCTCTTTGTT	GGAAACCTAA	ACTTTAACAA	ATCTGCTCCT	120
GAATTAATAA	CTGGTATCAG	CGATGTTTTT	GCTAAAAATG	ATCTTGCTGT	TGTGGATGTC	180
AGAATTGGTA	TGACTAGGAA	ATTTGGTTAT	GTGGATTTTG	AATCTGCTGA	AGACCTGGAG	240
AAAGCGTTGG	AACTCACTGG	TTTGAAAGTC	TTTGGCAATG	AAATTAAACT	AGAGAAACCA	300
AAAGGAAAAG	ACAGTAAGAA	AGAGCAAGAA	CTCGAG			336

(2) INFORMATION FOR SEQ ID NO:1041:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1041:

GAATTCGGCC TTCATGGCCT AGGCTTCCCG AGCAGTCTCC AAACATATAT TACATTGAA	60
GGTCGCGCCC GCGCCGCCCC GCTCGCGATT TGGCCCTTCG GGGCCCCCGT CCTCCACCTC	120
CTTCTCTCCC ATGATGCATT GTCATCTGGC TTTTATCACC TGTTCGCCC TTGAATTGA	180
ACATGCCAAA GATATAAGTA TTGGATTGCA GTCTGTCAGT ATTATTGGT GAGTTTTTTT	240
TTAATGCATA CAGCTTTTTC ATAAGTGCAT AAATGGGATT ATATAAACAA TGTTTAGAGT	300
AGTTTTCTTT TTTACCCTTT TGCCTGGTTT GCTCTTCTTC CCTATCACAT CCCTTCCAAT	360
CCATCTCGAG	370

(2) INFORMATION FOR SEQ ID NO:1042:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 563 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1042:

GAATTCGGCC TTCATGGCCT ACGCCATCTT CCAGTAATTC GCCAAAATGA CGAACACAAA	60
GGGAAAGAGG AGAGGCACCC GATATATGTT CTCTAGGCCT TTTAGAAAAC ATGGAGTTGT	120
TCCTTTGGCC ACATATATGC GAATCTATAA GAAAGGTGAT ATTGTAGACA TCAAGGGAAT	180
GGGTACTTTC AAAAAGGAAT GCGCCACAAG TGTTACCATG GCAAAACTGG AAGAGTCTAC	240
AATGTTACCC AGCATGCTGT TGGCATTGTT GTAAACAAAC AAGTTAAGGG CAAGATTCTT	300
GCCAAGAGAA TTAATGTGCG TATTGAGCAC ATTAAGCACT CTAAGAGCCG AGATAGCTTC	360
CTGAAACGTG TGAAGGAAAA TGATCAGAAA AAGAAAGAAG CCAAAGAGAA AGGTACCTGG	420
GTTCAACTAA AGCGCCAGCC TGCTCCACCC AGAGAAGCAC ACTTTGTGAG AACCAATGGG	480
AAGGAGCCTG AGCTGCTGGA ACCTATTCCC TATGAATTCA TGGCATAATA GGTGTTAAAA	540
AAAAAATAA AGAGACACTC GAG	563

(2) INFORMATION FOR SEQ ID NO:1043:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1043:

GGCTTGATTG TTAGAGAAAT AATGTTGGAA GAAGAACCTT CAATAACATC AGGTGAAAGC	60
CAGACTACCT ACTCTACTTT CAGTGCTCCG TTAATAAAG CAAATAGAAA AAAGTTAATT	120
GAAAGTCTTT CCCAGATT TGTTCACCAA AACAAAGGGC TGTGCTGAC AGTTAATACC	180
AGTAGTCAGA ATGGAAGGCC TGGGAAGAACA CTTATTAAAG AAATCCAGAG TCCTCTGTCT	240
AGTATCTGTG ATGGCTCCAT AGCTCTAGAT GCTGAGCCTG TTACCCAGCC AGCATCGCTG	300
CCCAGACACA GCAGCACACC AGACCACACC AGCAGACTGG AGCCTCCTCG TTTGCCTCAA	360
AGAAAGAACT TACAAAGTGA AAAGGAAACT CTCGAG	396

(2) INFORMATION FOR SEQ ID NO:1044:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1044:

GAATTCGGCC	TTCATGGCCT	AAACTGGAAA	TCCTCTAAAT	GTCTGTCAAT	GAAGGAATAG	60
ATAAATTGTA	ATATGTTTCAT	ATAAAATGCT	GCATAAATAA	GTGAAATTTA	TAAATATACT	120
AACGAATGAA	TCTTGAAAAC	AGAGTTGGGA	GATAAAAGCA	AGCTGTGAA	GAACATGGTC	180
AGTATCCTCT	CACCTATGTA	AGTTAAAAAC	TCCAAAGAAC	ATTATCTATA	TTGGTAATGG	240
CATAGACATG	TGTGGTAAAA	TATAAAAATA	TTAACTAAAA	GTTCTATACG	CTTCAGGATA	300
TTGTTAGTAT	AATAAGGCAG	GAAGTGGATA	GCATTGGGAT	GAGAACTCGA	G	351

(2) INFORMATION FOR SEQ ID NO:1045:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 390 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1045:

GATTCGGCCT	TCATGGCCTA	AGCAGCTCGG	GGTTCGGCAG	CAGCGSTCCC	ATCGGCTGAA	60
GTTCGGGGGG	GGTGGGGCGC	CGAGCGCGCG	GGGTGGGGGG	GGTCCTGGTC	TTTGGCTTCT	120
CGACTCGGTC	CTGTTTCGAC	AGCGAACATG	TCGCGGCCTG	TCAGAAATAG	GAAGGTTGTT	180
GATTACTCAC	AGTTTCAGGA	ATCTGATGAT	GCAGATGAAG	ATTATGGAAG	AGATTCGGGC	240
CCTCCCACTA	AGAAAATTCG	ATCATCTCCC	CGAGAAGCTA	AAAATAAGAG	GCGATCTGGA	300
AAGAATTCAC	AGGAAGATAG	TGAGGACTCA	GAAGACAAAG	ATGTGAAGAC	CAAGAAGGAT	360
GATTCTCACT	CAGCAGAGGA	AGCTCTCGAG				390

(2) INFORMATION FOR SEQ ID NO:1046:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 381 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1046:

GAATTCGGCC	TTCATGGCCT	ATGAAGCATC	TGGATGGGGA	AGAGGATGGC	AGCAGTGATC	60
AGAGTCAGGC	TTCTGGAACC	ACAGGTGGCC	GAAGGGTCTC	AAAGGCTCTA	ATGGCCTCAA	120
TGGCCCGCAG	GGCTTCAAGG	GGTCCCATAG	CCTTTTGGGC	CCGCAGGGCA	TCAAGGACTC	180
GGTTGGCTGC	TTGGGCCCCG	AGAGCCTTGC	TCTCCCTGAG	ATCACCTAAA	GCCCCGTAGG	240
GCAAGGCTCG	CCGTAGAGCT	GCCAAGCTCC	AGTCATCCCA	AGAGCCTGAA	GCACCACCAC	300
CTCGGGATGT	GGCCCTTTTG	CAAGGGAGGG	CAAATGATTT	GGTGAAGTAC	CTTTTGGCTA	360
AAGACCAGAC	GAAAACCTCGA	G				381

(2) INFORMATION FOR SEQ ID NO:1047:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 318 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1047:

GAATTCGGCC TTCATGGCCT AGGGGTAGCC CTGACCGCC TCCTGCTGGC ACAGGTCTTG	60
GTTCTTGTCT TTGACGCAGT CAACAGCGGC ACAGGCAATC TTTCGGTCAT CTTTGAAGGC	120
ATCAGCAGTA GCAGTAAAGT GCGGAATGAC CTTCTTACAG TGTGGGAACC AAGGGGCGTA	180
GAACATGACC AAGGTGTGTT TCTTCTTCTT CAGGGTCTCC CGGAAGTTGT CCCCACCCAG	240
GTGCAACACG CTTGTCTGCT GCTCTTCCCA CGTGGGCTCT GGGGGCGGGG GGGCCTCAGG	300
GTTTTGCATC CACTCGAG	318

(2) INFORMATION FOR SEQ ID NO:1048:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 591 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1048:

GAATTCGGCC TTCATGGCCT AGCAAATTAT TCTTCAAAAT GATTATAACC AGTTGCACCC	60
TGTATTTCTT TTTGCAGCCA GCACAATGTG ACCCAACTTA AAATTGGGG GAAAAAGAAT	120
GCAGGAGTGA AATAACCAAG TCAAAACCAT GTACTATCTC CTTGGGGGTT AGGGATGCTA	180
AGAAGAGCCC ACAAAATAGAG GATTACTCTT CCCCTGAATC TCTAAACTCA GAAACAATTA	240
CCAAAAAATA CATAACTCTT CCTTGTAGGG CCCTTTCCTT ATTCATTTAG GTAGTGTGAA	300
CATTAAGTAT AAAATAAATT ATGTTCTTAA TGCCTCTTAA ACCACTTACA TTCAAAGGGG	360
AACAGAAATC ATTCTAAGCG GGAAAACTT CCACCTTTT TTTTTCATCA GTATCTCTCT	420
AATAACTAAA TGCCACTTAT TTGCATTCTC CTTGTGGATT TTTTGTCAAC TAAGGAAATG	480
CATTTGATGA GTGCTGGAAA CTTCTTAAGT GCTTTACAGT TTGTTTTCAT TGTTTGCAGC	540
GGATCACTGG ACATCAAAGA TTCATTGCAC TTATGAACAA GGAACCTCGA G	591

(2) INFORMATION FOR SEQ ID NO:1049:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 355 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1049:

GAATTCGGCC TTCATGGCCT AGGTTTCTTG GTGTTTTTGT TTTCTGGCAG GCAGTGAGAG	60
GAGGGGTGAA GGAGGAGTTT GGTGCCATTT CTCTTTCTGC TTTTTCCTCT TCTGATGTCA	120
AACAAATGAT GAAAATCCTG CTATGGGAGC CCGGGAGCCT GGGGCCAGGC TGCTGGGGGG	180
ACGGTAGAGG GTGCTCTGCT GACTTGGGGG GTTAGGGGGG TTCTGGGGCG TTGGAGTCCG	240
ACTGGCCTTG GGCCGAAAGA GGCTGCCCTG CTGGGTGCTG GTGCTGTTGG TGACGGTGGT	300
GTGGTCTGGC TCACCCGAGT CGCTCTCCGT GTAGCTGTAG GCCTGTGCCC TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1050:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 245 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1050:

GAATTCGGCC TTCATGGCCT AATGTGTTAG AAGACTCCCT CTACCTACCT GTTAAAAAAA	60
AAATGACTTT TTTTGCAATT TTTGCTGTT TCCTTAAAC TAAAGCTGTG TTCTTCTGTT	120
TTGAAGGGTT TCCGCCCCCA ACATATGTTA TCCCCCGCC TGTGGCATTT TCTATGGGCT	180
CAGGTTACAC CTTCCAGCT GGTGTTTCTG TCCAGGAAC CTTTCTTCAG CCTACAGCTC	240
TCGAG	245

(2) INFORMATION FOR SEQ ID NO:1051:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 548 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1051:

AATTCGGCCT TCATGGCCTA GGGAGTTTGA GGGAGTTCTT TGGTATGCCC GCATCCCGGG	60
GTTGTTTGCT GGTATTATCT GCCACATTAT CACCTTGTA CGTTTATGGT ACCGGAGATT	120
GTAGGTAAAG TTTGTTTATG CTTCCACGA CCTCCCTCTG TCGGGTCCGG ATGGTTTGTA	180
ATTGGGGTTT GCTTTATAGC AGCGAGGCCT GATAGGTAAA GTCTGCTGGC TTCACTGTGG	240
CGCCTAGATA AGGGCTTAGA AATGTAAAAA GGCTTGGGGC AGCATGGAGA GGAGTTGCAG	300
AGTGGGGAGG GGCAGGCAGC ACCAAGAAGC TTCTTGAGGC AGTTTGTCCC TAACAGATT	360
ATTTTCGGAA AGGAATTCTG AACTCTGAGA CCAAATCAGT ATATTTGTGT ATATTTTTC	420
ATATACTTCC AAAGTCTTTT AATTCTTAAT TAACCTGATA TTAAAGTGAA AAGGGTTTAC	480
TCTTTATCCT AGTTAATTAC ATATTCCATT TGTTAATGAA ACTATCCTTT GCTCACTGCA	540
TACTCGAG	548

(2) INFORMATION FOR SEQ ID NO:1052:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 301 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1052:

GAATTCGGCC TTCATGGCCT ACATAATACT TGCTGCTCTT GGGGTTGAAG CCGTTGTTAT	60
TTTCTTAGGA GTTAAGTTGC TTTCCAAAAA GATTGGCGAG CGTGCTATTC TACTGGGAGG	120
ACTCATCGTT GTATGGGTTG GCTTCTTTAT CTGTGTACCT TGGGGAAATC AATTCCCCAA	180
AATACAGTGG GAAGATTTGC ACAATAATTC AATCCCTAAT ACCACATTG GGGAAATTAT	240
TATTGGTCTT TGGAACTCTC CAATGGAAGA TGACAATGAA AGACCAACTG GTATGCTCGA	300
G	301

(2) INFORMATION FOR SEQ ID NO:1053:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 642 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1053:

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CGGAGGCCCT GAATGCCCCA TGCGCACCCC ACAGCTCGCG CTCCTGCAAG TGTTCTTTCT      60
GGTGTTCCCC GATGGCGTCC GGCCTCAGCC CTCTTCCTCC CCATCAGGGG CAGTGCCAC      120
GTCTTTGGAG CTGCAGCGAG GGACGGATGG CGGAACCTCC AGTCCCCTTC AGAGGCGACT      180
GCAACTCGCC CGGCCGTGCC TGGACTCCCT ACAGTGGTCC CTACTCTCGT GACTCCCTCG      240
GCCCCTGGGA ATAGGACTGT GGACCTCTTC CAGTCTTAC CGATCTGTGT CTGTGACTTG      300
ACTCCTGGAG CCTGCGATAT AAATTGCTGC TGCACAGGG ACTGCTATCT TCTCCATCCG      360
AGGACAGTTT TCTCCTTCTG CTTCCAGGC AGCGTAAGGT CTTCAAGCTG GGTTTGTGTA      420
GACAACTCTG TTATCTTCAG GAGTAATTCC CCGTTTCCTT CAAGAGTTTT CATGGATTCT      480
AATGGAATCA GGCAGTTTGT TGTCCATGTG AACAACTCAA ACTTAAACTA TTTCCAGAAG      540
CTTCAAAAGG TCAANGCAAC CAACTCCAG GCCCTGGTTG CAGAGTTTGG AGGCGAATCA      600
TTCACTTCAA CATTCCAAAC ACAATCACCA CCACTCCTCG AG                      642

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(2) INFORMATION FOR SEQ ID NO:1054:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 496 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1054:

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GAATTCGGCC TTCATGGCCT ACCTGTGAGT ACCTGGATGA AGCATACCCA GGAAGAAGC      60
TGTTGCCGGA TGACCCCTAT GAGAAAGCTT GCCAGAAGAT GATCTTAGAG TTGTTTCTA      120
AGGTGCCATC CTTGGTAGGA AGCTTTATTA GAAGCCAAAA TAAAGAAGAC TATGCTGGCC      180
TAAAGAAGA ATTTGTAATA GAATTTACCA AGCTAGAGGA GGTTCTGACT AATAAGAAGA      240
CGACCTTCTT TGGTGGCAAT TCTATCTCTA TGATTGATTA CCTCATCTGG CCCTGGTTTG      300
AACGGCTGGA AGCAATGAAG TTAAATGAGT GTGTAGACCA CACTCCAAAA CTGAACTGT      360
GGATGGCAGC CATGAAGGAA GATCCACAG TCTCAGCCCT GCTTACTAGT GAGAAAGACT      420
GGCAAGGTTT CCTAGAGCTC TACTTACAGA ACAGCCCTGA GGTCTGTGAC TATGGGCTCT      480
GAAGGGGACA CTCGAG                      496

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(2) INFORMATION FOR SEQ ID NO:1055:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 316 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1055:

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GAATTCGGCC TTCATGGCCT AATGTGCTTA ACCCTCAAGA AATTGTCACA ACTGAAAGAC      60
GGGAGCAAGC TGACACTGCA AGGAACACAT GATGCTTGG AATGGGTGGC CTGCGTATTC      120
AAACACATCA AAGCAGCAGT TACTTGAACA ATCGGAACCT CTTCAAATAC TGGCCCACTT      180

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CTTCCTTGGG GTAGGGCCGG AGAGCAATAC AAGTGGCGAT ATTCTCTGGT TGCTCAAGCC	240
ACAGCATGTG GTCAATGTTC TTCTGTTGCA GGGTCTCGGC CAGCTCCTTT AGGGTGGTCT	300
CATCTGGGGC CTCGAG	316

(2) INFORMATION FOR SEQ ID NO:1056:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1056:

CGGGTTAAGG TAGCATCAGA ACCCTGGACG CGGAGTCAGG GCTGGCAGAT AGCAAGGCAT	60
CTCTCGGAGC GTTCTTGGGA GGCGCCATCT TGCCCCACTC CATGTTATCC AGCCACTCGT	120
CATCCCGCGG AGACAGAGGA GAGAGGAGAG CTCGCGGGGA AGCAGAATTC CCAACCGTTC	180
CATCCAACAA TGGAAATCGGT ATCAGGATGT GGTTAGCTCC CTGTACCAGC GAGTGTACAG	240
TCAGAGACTG GCCAGTCCCC TTGTTACAAA CACTGTAGAA GAATGTGACA GCAGCTGCTG	300
TGGCCAGTAG ATTGTCTACC TGTAGTTGCA GAGAAGCCCA AGAGTTTGAT GATGAGGCAG	360
TTCTCTGAG	369

(2) INFORMATION FOR SEQ ID NO:1057:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 540 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1057:

GAATTCGGCC TTCATGGCGT ATCTCATTCT GTCTCCCAGG CTGGAGTGCA GAGAAACAAT	60
CTTGGCTCCT GCAGCCTCAA CCTCCCAGG TCAAGTGATC TTGTTGCCTC AGCTTCCCAT	120
ACAGCTGGAA GCACAGGTGC ATGCCACCAC ACTTGGCTAA TTTTGTATTT TTTGTGGAGA	180
TAGGATCTCT CTATGTTGTC TAGGCTGGTC TTGAAACTCC CTGACCCCGT GATCCACCTG	240
CCTCGGCCTC CCGAAGTACT GGGATTATAC GCATGAGCCA CCGTGCCCAG CCGTCATTCT	300
TATATTATTA TTTCTAGGT GTCTCTCCTG AAGACTATCT TCTGGTCTCG AAATGGACAT	360
GATGGATCCA CGGATGTACA GCAGAGAGCC TGGAGGTCCA ACCGCCGTAG ACAGGAAGGT	420
ATGGCTCTGT TGGAAATCCG ATAGTGTGGA AATGAGTTTG CCCTGGAAAG GGAAAGAACA	480
GCTTCTTGCC CTCAGGTTTC TCACCTTCTC CTCTCCTCAC TCTCACCAG GACCCTCGAG	540

(2) INFORMATION FOR SEQ ID NO:1058:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1058:

GAATTCGGCC TTTATGCNAN NTTCTTTCA AAAAAAAAAA AGAAAAGAAA TTGCAAAAGT	60
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TCTTCTAAAG	TAAATCCAA	GGTGGTTTGT	CTAGCAGAGA	GCCAGGAATT	CTTCTAATA	120
GTGGGCAGAG	CCCAGAGACA	AGGGGAAGAA	AGATGACCTT	CTCCCCAGTC	CTTCCCAGCA	180
CCATTTTGT	TTCACACCAG	GCTTGTGGCA	TTTTGGTGCT	CACAGGGGTT	TTGCCTTCTG	240
ACCTCTCCTT	GGAGTAGGCC	ATTCTCATGC	AGGGCTCACC	CTGAGGCAGG	AGGACCAAGG	300
GCTCCCTGCG	TCCACGGACC	ACGTATGCCT	TGGTGTCCAC	TCCCATCGGG	GCTATCAGTT	360
CTGCACTGTG	CCCTGGTGCG	GATTTTAATG	CATATTTTTA	TATATAAATG	TTCCCAAAGG	420
CCGTCTCGAG						430

(2) INFORMATION FOR SEQ ID NO:1059:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1059:

GAATTCGGCC	TCATGGCCT	AACATTAAGG	AAAAAGCCTT	AATGGCCATG	AATAACCTGA	60
GTGAGAATTA	TGAAAATCAG	GGCCGGCTTC	AGGTGTACAT	GAATAAAGTG	ATGGATGATA	120
TCATGGCCTC	TAACTGAAC	TCAGCAGTTC	AAGTAGTTGG	ACTAAAATTT	CTAACAAACA	180
TGACTATTAC	TAATGACTAC	CAACACCTGC	TTGTCAATTC	CATTGCAAAC	TTTTTCCGTT	240
TGCTATCTCA	GGGAGGTGGA	AAAATCAAGG	TTGAGATTTT	GAAAATCCTT	TCGAATTTTG	300
CTGAAAATCC	AGATATGTTG	AAGAACTTC	TCAGTACCCA	AGTGCCAGCA	TCATTTAGTT	360
CCCTCTATAA	TTCTTACGTG	GAATCAGAAA	TCCTTATTAA	TGCCCTTACT	CTATTGAGA	420
TTATCTATGA	CAATCTCAGA	GCAGAAGTGG	CCTCGAG			457

(2) INFORMATION FOR SEQ ID NO:1060:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1060:

GAATTCGGCC	TCATGGCCT	ACAACCCCGC	GATAACCACT	GCCGAATGCC	TGAAGGCGCT	60
TGAGCACGTG	TTTGGGAGCG	TTGAGAGCTC	TACGGATGCC	CCGATCAAAT	TTCTGAACAC	120
TTATCAGAAC	CCGGGAGAAA	AATTGTCTGC	TTATGTCATT	CGTCTGGAGC	CTCTGTACAC	180
GAAGGTGGTA	GAGAAGGGGG	CCATTGATAA	AGATAATGTG	AACCAGGCCC	GCCTAGAGCA	240
GGTCATTGCC	GGGGCCAACC	ACAGCGGGGC	CATCCGAAGG	CAGCTGTGGC	TTACCGGGGC	300
TGGGGAAGGG	CCAGCCCCAA	ACCTCTTTCA	GTGCTGGTG	CAGATCCGTG	AGGAGGAACC	360
CAAGGAGGAG	GAGGAGGAGG	CTGAGCCAC	CCTTCTGCAG	TTCGGCCTGG	AAGGGCACTT	420
CTGAGTGCCA	GGAAAGGCAG	CTTTAGTGCA	GACCTAGATC	ACAGCTACCT	CGAG	474

(2) INFORMATION FOR SEQ ID NO:1061:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1061:

GAATTCGGCC TTCATGGCCT ACCAGCCTCT GTTAGATATG TCCAGAGATG GAAACTCACT	60
CCCCTACAAA AGATGGAGCT TAATGGAGAA ATTGCAACTT TCATTAACAAA ACAAATTCAG	120
ATGAAATATC AGTAACTGTC TTGGACAGTG CTGAAATCAG GTGGTTAAAC GGGTAAACAA	180
AATATACTGT ATTTTGAGAA ATGGCACAAA AACAGGCAGT CATCTTTAAT GGCTATGCCT	240
AGGCAAACTA CTAACATGCA TTGTGAGAAT GCCGTGTATA CCTCACGTAC TGTGTACTTT	300
GTACATATAT TTTACCTTTT ATACCTATGT TCGATTTTGT TTTGTTTTGT CCTGGCGTCC	360
TCGAG	365

(2) INFORMATION FOR SEQ ID NO:1062:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 434 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1062:

GAATTCGGCC TTCATGGCCT AGGAGCCGCA GGGCCGTAGG CAGCCATGGC GCCCAGCCGG	60
AATGGCATGG TCTTGAAGCC CCGCGTCGGG TCCCATCCGG CCCATCGTGC GCTGCCCCAC	120
GGTTCGGTAC CACACGAAGG TGC GCGCCGG CCGCGGCTTC AGCCTGGAGG AGCTCAGGGT	180
GGCCGGCATT CACAAGAAGG TGGCCCGGAC CATCGGCATT TCTGTGGATC CGAGGAGGCG	240
GAACAAGTCC ACGGAGTCCC TGCAGGCCAA CGTGACGCGG CTGAAGGAGT ACCGCTCCAA	300
ACTCATCTTC TTCCCCAGGA AGCCCTCGGC CCCCAAGAAG GGAGACAGTT CTGCTGAAGA	360
ACTGAACTG GCCACCCAGC TGACCGGACC GGTTCATGCC GTCCGGAACG TCTATAAGAA	420
GGAGAAAGCT CGAG	434

(2) INFORMATION FOR SEQ ID NO:1063:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 429 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1063:

GAATTCGGCC TTCATGGCCT ACTTAATTTT AGAGCCGGGT TCGCCGTCGG ATCAACCTCC	60
AGGAGCTAGC AGCGGGCGCG GACCGGGCAG TTTCGCGCT CAGCACAGGC AGCTCGCGGT	120
CATGGGCGGC TCAGCCTCCA GCCAGCTGGA CGAGGGCAAG TGCGCTTACA TCCGAGGGAA	180
AACTGAGGCT GCCATCAAAA ACTTCAGTCC CTACTACAGT CGTCAGTACT CTGTGGCTTT	240
CTGCAATCAC GTGCGCACTG AAGTAGAACA GCAAAGAGAT TTAACGTCAC AGTTTTTGAA	300
GACCAAGCCA CCATTGGCGC CTGGAATAT TTTGTATGAA GCAGAGCTAT CACAATTTTC	360
TGAAGACATA AAGAAGTGGA AGGAGAGATA CGTTGTAGTT AAAAATGATT ATGCTGGGGA	420
GAGCTCGAG	429

(2) INFORMATION FOR SEQ ID NO:1064:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1064:

GAATTCGGCC TTCATGGCTT AGTCTTGGTC ATGCCTGGGG AGCTCAGAAC GCCCCGGCTT	60
GGGCCCCAGG CCCATGGACT CCCTTCCCA TTCTGCCCTC CCATATTCCTT CTTTTTGGT	120
CCCAGACACC AGCACAAAGA AAGGAGGGTT CACAGAGGAA GGCCAGGGCA GAGCCTGGCC	180
CCAGGGAGGG GATGAGGACA TTTCCGGTCC AGGTAGCTGC CGGCTGCTCT GGGAGGAAGA	240
GCCATGCGTC TGTAACTGC TGGGGCTGGC GGCCCGCCCC ACTGCAGGGC CCAGCCTTGA	300
CCCCTGCACG TGGCCATCCA GCTGCCCTCT GGCTGCCCCCT GGCCTTGGCA CAGGCATCGA	360
GCCTCGAG	368

(2) INFORMATION FOR SEQ ID NO:1065:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1065:

GAATTCGGCC TTCATGGCCT AAGATGGTTG CCAAGCAAGG AAAACTTATT TTATATTTTT	60
ATACTGTATC CAGGCTATGC CTGGGTGTGG AGGGCTTACT CGAG	104

(2) INFORMATION FOR SEQ ID NO:1066:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 0 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1066:

(2) INFORMATION FOR SEQ ID NO:1067:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 125 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1067:

GAATTCCTGG CCTTTGGGAA CTCATATCCT GACCTCAGAT TGAGAAGACC ATCTGTCAAG	60
GCAATATTAGT AATCACCTCC GGTAGAAAAG ATTTCACGGG TAACAAGTAG GCCATGAAGG	120
TCGAG	125

(2) INFORMATION FOR SEQ ID NO:1068:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1068:

```

GAATTCGGCC AAAGAGGCCT AAGTTCAAAT AATTCAGAA TGGTGTCTGT TAGGAATGGT      60
CCAGAGGTTG GTTGGGGGAT GAAAGGAGGA CAGGACTAC AAGGGATATT GCAAATGACT      120
GCCTTAAAT ACCAACATAA AGCAGTGGAT TCCCAGAGTC CTCCAATCTG TTATCAGACA      180
CAAAGATTTG AACAAAAATA AATGAAAGAT AGAAATCAAA AGGTTTCTT TGAAGTCTCA      240
GGGTTATTTG CTTCTGAAAG CAAATGTGTT GTTCTTGCCT CATAGCAAAG TACTTTTCCT      300
ATTGATGCAT CACTTTATTG CTTTCTGTC TTCTCTCGAG      340

```

(2) INFORMATION FOR SEQ ID NO:1069:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 432 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1069:

```

GAATTCGGCC AAAGAGGCCT AGACGGGACC TGTTCGAGA CAAGATGCAA GGAACACAGC      60
CTGCAGTGAT TCACAGCTTT GTTCAACCC ACAAAACCAGA AAATTAGCTC TTGGGTCTGT      120
GGGCCCAAAG TGAACCTTAA AGCAATAAAG ACTGGAAGCA GGTCTGGGAA GGCAATACAA      180
AATGTGGAGA GTTGAAAAGG AGGCAGAGCT GGCAGGAATG GGTAGGGAGA GTGTTTGSTA      240
AATAGCACCT TTGAGTCAAA ATTGAGCAGT TTAGAAATCC AGGAAAGGGG ACTGGCTGTG      300
GGGAGGAGAA CCTGGGGGTA GAGGAAGTGG GGTGAAGATT CCTCACTAAG GGGCAACAGC      360
AGGAGGGTGG CCATCCTGGC CAAATGCCCT AGCCCTGTCC TTCTTAAGGT GATTCGGTTT      420
GGGAAACTCG AG      432

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(2) INFORMATION FOR SEQ ID NO:1070:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1070:

```

GAATTCGGCC AAAGAGGCCT ATTCTAGACC TGCACAAGCA CGCTGAGGAG AAATTCATTG      60
AATTTGAAGA CTCTCAAGAA CAGGAAAAAA AGGACTTACA GACCCGAGTG GAATCTTTAG      120
AATCTCAAAC AAGACAACTT GAGCTGAAAG CGAAAACTA TGCTGACCAG ATTAGCAGAC      180
TTGAAGAAAG AGAAGCAGAA CTGAAGAAGG AATATAATGC ATTACATCAA AGACACACTG      240
AGATGATCCA TAATTATATG GAACATTTAG AAAGAACAAA ACTTCATCAG CTCTCAGGGA      300
GTGATCAACT AGAATCCACA GCTCATAGTA GAATTAGAAA AGAACGCCCT CGAG      354

```

(2) INFORMATION FOR SEQ ID NO:1071:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 387 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1071:

```

GAATTCGGCC AAAGAGGCCT ATTCTGTCTT ATCAAAGGAA GTAAAGAAGT AAAAACAAAA    60
AATGAACGTA TACAAGCACA GATTTTGTAG CTTCGATTGT AGAGAAATGG TAGTTATGTG    120
GCTTGCCAAG AAAGTGCATC ACCTACTTCT GCTTCTGGGG ACAGAGGTGA AGGGGTCTGT    180
TCTGGAACCT TCTAAGGAGG CCATCTTCGT TATTACATCA GGAAGTTTC TAGTCAAAAT    240
GTTATTCCTG TCTACAGGGA AAAACAAAAG CAAAACACAA AAGAACACTG CTTCTAATGG    300
CATCATAGCA AGGAGTTTAT CTAGAAAGAT GATGCCAGCA GTCACCTCTT TTCCAGGAAG    360
ACAGAAACAA AAACCGTTCT CCTCGAG                                     387

```

(2) INFORMATION FOR SEQ ID NO:1072:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1072:

```

GAATTCGGCC AAAGAGGCCT AGAAAGTGCC AAGAGGGAAA AAAGGCACTC TGAGAAGTTA    60
CGGCAAAGAA TTGGGAAAGT TGTCAAAACA AACAAACAAA AAATAATAGA TTGTTTTAG    120
CAAACGACTT GGCTAAAAGT TACAAACCTA ATATATGTAA TACACAAGAC TACTTCATCA    180
TCTTCTTTC TGACAGTCTC ATGTTCTTTT TCAAGCCAAA AAGGGACATA TTCTTATAGC    240
TGGAAGTTTA AGGGAAGAC TTCCAACTTA ACTCTGTGTT GAGGGTGCAA ATCATGTGAT    300
GAAGGCTCGA G                                     311

```

(2) INFORMATION FOR SEQ ID NO:1073:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1073:

```

GAATTCGGCC AAAGAGGCCT ACGAAGAAAA AATATTTTGT AGAGAATTTC CCAGATTGAA    60
AGAAGATCTG AAAGGGAACA TTGACAAGCT CCGTGCCCTC GCAGACGATA TTGACAAAAC    120
CCACAAGAAA TTCACCAAGG CTAACATGGT GGCCACCTCT ACTGCTGTCA TCTCTGGAGT    180
GATGAGCCTC CTGGGTTTAG CCCTTGCCCC AGCAACAGGA GGAGGAAGCC TGCTGCTCTC    240
CACCGCTGGT CAAGGTTTGG CAACAGCAGC TGGGGTCACC AGCATCGTGA GTGGTACGTT    300
GGAACGCTCC AAAAATAAAG AAGCCCAAGC ACGGGCGGAA GACATACTGC CCCCCATGAC    360
CCTCGAG                                     367

```

(2) INFORMATION FOR SEQ ID NO:1074:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1074:

GCTTTATCTA TTTCATTTAA TCTAAATGTT TTCTGCAATT GTTTTTCCTT TAAACTTTGC	60
TTCAAAAACCT CTTCATCTAC TTGAGATCTG GGCATTGTGG TTTTGTGTCT CGCATTTTCC	120
CTGCCTTCTG ATGGCTTAGC AGGGGACCCT TTCTTCTTTG GCTGGTGGGG CTCTCTGGA	180
TCAGTAATGT CCACATGCGG CTTCTGCAGC AAGGTTTCT CTTTGTCTGA TACTGTAAC	240
CGGGGGGCTC TGTTCCTAAA GGAATGAGAG GCCTCTGGT TTCGAAGCCC CCCTCTGCCT	300
TTGCTCACCA CTCGAG	316

(2) INFORMATION FOR SEQ ID NO:1075:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 435 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1075:

GAATTCGGCC AAAGAGGCNT AGAACTCGGA GACCAGAAAG TGAACCTCTG GGCAGAGATG	60
GNCCTGCAGA GCCAGGTGTG GTCTCTGGCC ACACCCATGC CCATGGCGGA GAGCTCCNTC	120
TACCGGCAGC GGCTAGAAGT CATCGCTGTA AGTGACGCCC TCCC CGCGCC CTGGGCACCC	180
CCAAACTTTC CACCATGCTC CCTTCTCGTC TCTCCGTCAT CTCTGCGGAG AGCGCCCTCA	240
GCTCCAGCCC CGCCAGGGC TCCCCACACC AATTCTCCAG CCCCCTCTGC CCCCAGTTC	300
CTGTCTGTC ACTACCACCC TCAGAATGGG GAGCTGTGGC CCCCACACTT CCAGAGCCTG	360
CATCGGCTAT GCCTCATTCC TGAACCCAG CCTCCCAAAA ACCCATGCCC TGAGCCGCAT	420
CTCCCGGACC TCGAG	435

(2) INFORMATION FOR SEQ ID NO:1076:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1076:

GGAATTCGGC CAAAGAGGCC TAGTGGGAAA AGCTTGGATT ATCAAAACAC ACAACAAATG	60
ATAGAACCAA ATATATAGAT GATACAGTGA AGCACAAGGT CAAAATTTTA AAACGGGTGA	120
GCTCTTCATT AATGCATTAT TTTGTTTATT TAAGAGCTTT TTGTATGGAC TGACTGCAAT	180
AATTTTGAAA TTTCTTTTA GAAGTTTAA TGTTCTTTA CATTTTCAA TTTAGTTTTT	240
CATGAAAGTG AATAGGTTTT TATTTAAAT TTTTGTCTAG TCTTGGTGAA ATCAGATGGT	300
GACTCTCGAG	310

(2) INFORMATION FOR SEQ ID NO:1077:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 396 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1077:

GAATTCGGCC AAAGAGGCCT AGGAAAACAA ATGGCTTCTT CAAGTCCTTG ATTTTGGAT	60
ACACAGGATG CAGGGCTGTG TGTAAGGAAA GGCAGCGTTT TCCTCTCTTA GAGCCTCTGA	120
CTGACCTGAG GCGCAGGTGT TCCTGGGAGA CTGGAGGGTG GGCTCCATGG GGGTGTCTGG	180
GCCCCACCTG GCAGGGCTCT TGGCAGTGAG CCAGTGGAGG TTGCCTCCCA CGTGTGGCTG	240
GCCCTGTAGC CTGGCTCTGG AGAACCTGCA ATTCAGGCTG GAAGAGACTT TGGAGCAGCT	300
GGAGTGTGAG GTCTGCCTGG GTCTGGTGGG GAGTGTTTTT ACTTTGCCAG TGATAGACTG	360
AAATGCCCTC TTTGAGGACA AGGTGGCTAT CTCGAG	396

(2) INFORMATION FOR SEQ ID NO:1078:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 313 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1078:

AGTGTTTTCC TGTATTTTCC CATATTCTTT GAAACTCTGC TGAAAGGAGG CTGTCAGTCA	60
GGGTTGTATA AATAGAGTCC TGGGTAAATC CTTGAAGCTT GTCATTCCAC AGCAAATCCA	120
CATGTTTCTT CAATGGCTGT TAGCAGCTTT TCATATAGCT TTTCATAGCT TTCATAGGGT	180
GGAATGTCTA TTCGATTGAA GCAAGTGTGG GCTTTCGGCA GGTGTGTTAGT GCAGGCATCA	240
ATCTGGTGTA TGGTAAAGAG TCTCGGCCT GCAGCACCTT GCAATGCTTT GAAGCCCTGC	300
AGAGGCATC GAG	313

(2) INFORMATION FOR SEQ ID NO:1079:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 354 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1079:

GAATTCGGCC TTCATGGCCT AAAAATGAAC TATAATAGTT CTAATTTACC TCAAGTTTTT	60
CTAAGATAGC AAATAAATTG TAGTGTCA CA TTAGCTTCCT AAGTAAGGCA AATTGACCTG	120
CAATAAAAGG TTCTAGTGTG AGACAAATTA AACCTTCAAC TTCCAACCTC GATTTCTAAT	180
ATAATTCAAA TTGTCACTGA AGCTTTTATT AAGAATAAAA ATATATTTAG TCTTTATTAT	240
TTTCTGTA AA TGACTTATTT TCAGATGCAC AATCGTGAAA TAATGAAGAT TTTGATCAGT	300
TGTTTTTGTC TTTTTCCTTT GAAAGGTATT TTCGCAAGAC CATTAAACT CGAG	354

(2) INFORMATION FOR SEQ ID NO:1080:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 641 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1080:

```
GAATTCGGCC TTCATGGCCT ACTCCGGTGG CTCCCCATC TCTCAGGCGC GATGGCTACG      60
GGCGCGGATG TACGGGACAT TCTAGAATC GGGGGTCCAG AAGGGGATGC AGCCTCTGGG      120
ACCATCAGCA AGAAGGACAT TATCAACCCG GACAAGGAAA AATCCAAGAA GTCCTCTGAG      180
ACACTGACTT TCAAGAGGCC CGAGGGCATG CACCGGGAAG TCTATGCCTT GCTCTACTCT      240
GACAAGAAGG ATGCACCCCC ACTGCTACCC AGTGACACTG GCCAGGGATA CCGTACAGTG      300
AAGGCCAAGT TGGGCTCCAA GAAGGTGCGG CCTTGGAAGT GGATGCCATT CACCAACCCG      360
GCCCCGAAGG ACGGAGCAAT GTTCTTCCAC TGGCGACGTG CAGCGGAGGA GGGCAAGGAC      420
TACCCCTTTG CCAGGTTCAA TAAGACTGTG CAGGTGCCTG TGTACTCGGA GCAGGAGTAC      480
CAGCTTTATC TCCACGATGA TGCTTGGACT AAGGCAGAAA CTGACCACCT CTTTGACCTC      540
AGCCGCCGCT TTGACCTGCG TTTTGTGTT ATCCATGACC GGTATGACCA CCAGCAGTTC      600
AAGAAGCGTT CTGTGGAAGA CCTGAAGGAG CACTGCTCGA G                                641
```

(2) INFORMATION FOR SEQ ID NO:1081:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 415 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1081:

```
GAATTCGGCC TTCATGGCCT AGCCCTTTTT GGTTTTCTAA TTAGGAATAT AGCATCTGCA      60
AATAATGACA GATTGTTTCT TCTTTTCTAA TTCTTACAAC TTTTGTTACT TTTTCTTGTC      120
TAATATGCTG CCTAGAACTG TAGAGCTTCC TGCTCTTGTT CCTCCCTTTT TTTTATTCTT      180
ATTTTATAGGA GCAACCCTAT TAACTAAGCC TCACTCTTAA AGGGGAAGTT TTCACCACTA      240
AGTACCTTTC TAATCTAGGT TTTTGTGGA TACCTTTTAT CAGACTAATG AAGTTTAATA      300
TTGTTAAATA CTTTGAATTG TCTATATTAT GATGATAGTA TGCTTTTTTC TTTTATTTAT      360
TAAAATGGTC CCAGGAATTT GTGAACAGCT TGGGCAATAC AGTGTGACGC TCGAG              415
```

(2) INFORMATION FOR SEQ ID NO:1082:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 496 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1082:

```
GAATTCGGCC TTCATGGATC CTGATACCAA ACTCATCGGA AACATGGCAC TGTTGCCTAT      60
CAGAAGTCAA TTCAAAGGAC CTGCCCCCAG AGAGACAAAA GATACAGATA TTGTGGATGA      120
AGCCATCTAT TACTTCAAGG CCAATGTCTT CTTCAAAAAC TATGAAATTA AGAATGAAGC      180
TGATAGGACC TTGATATATA TAACTCTCTA CATTTCTGAA TGTCTGAAGA AACTGCAAAA      240
GTGCAATTCC AAAAGCCAAG GTGAGAAAAG AATGTATACG CTGGGAATCA CTAATTTTCC      300
CATTCCTGGA GAGCCTGGTT TTCCACTTAA CGCAATTTAT GCCAAACCTG CAAACAAACA      360
```

GGAAGATGAA GTGATGAGAG CCTATTTACA ACAGCTAAGG CAAGAGACTG GACTGAGACT	420
TTGTGAGAAA GTTTTCGACC CTCAGAATGA TAAACCCAGC AAGTGGTGA CTTGCTTTGT	480
GAAGAGACTA CTCGAG	496

(2) INFORMATION FOR SEQ ID NO:1083:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 342 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1083:

GAATTCGGCC TTCATGGCCT ATTCACAGGT TTATTGGCTT CTCTTGAAA TGCCTGTTCA	60
TGTCTTTTGG CCACTTTTTA TATGGGTCAT TTGTCCCTTA TTGATTTATA AGGGTTCTTT	120
ATTTTTTCC TAGATATTAA TAGTTTGGC CAGATGTTG CAGATGTCTT TTCTCAATAT	180
GGCTTGCTTT TTCAAGTTTG GTGTCTTGAT GATCAGAAGA AGTCTTCAT GTAGTTGATT	240
TATTGACCTT TTCCATTATG GTTTTCACTC TTTGACTCTA GGAGCTTAAT AAAAGCATGA	300
AATATTTATT GATTGTCCAT TGCTAATCCG AAAACCCCTG AG	342

(2) INFORMATION FOR SEQ ID NO:1084:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 374 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1084:

GAATTCGGCC TTCATGGCCT AACTTACTGA ATGATAAAAC TTGCAGCTAA ATTTGTCTTC	60
AACACACCTT TCTCAGAGCA TCAATTACAT TATTCATTAA GGAATAAATA GCATCTCTAA	120
AGCATGTATC AACATCAGAA CTAAGCTTTA TGAATTATAC AGTGCATCTA GTGATTCCTT	180
ATTCTAAAAG ATCTCTGGTG CCATCTACTG AATGCTTTT AAAGGAAAAA ACATGAAATC	240
AAATAATAGA TTTTCACTTA ATTCAATTTT TTGTTTTGTT TTAATTTTCA ATTACTAGAC	300
AGATCTAGGT TTATAAAGA ACTAAACAGG AAGTACAGAA TTCCCATATA ATCACTTTTC	360
CCCCAAGACT CGAG	374

(2) INFORMATION FOR SEQ ID NO:1085:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 343 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1085:

GAATTCGGCC TTCATGGCCT ACTGGAACAC CTTCTCGCTG CCGCCATACC CTGCCTTCTC	60
CAGCGACAGC CGCCCGTTCA TGAGCTCCGC CTCCTTCCTC GGCAGCCAGC CCTGCCCAGA	120
CACCAGCTAT GCCCCGTGG CCACCGCCTC CAGCTTGCCA CCAAAGACCT GCGACTTTGC	180
TCAGGACTCC TCCTATTTTG AGGACTTCTC CAACATCTCC ATCTTCTCCT CGTCCGTGGA	240

CTCCCTGTCG GACATCGTGG ACACGCCCGA CTTCCCTGCCG GCTGACAGCC TCAACCAGGT 300
GTCCACCATC TGGGACGATA ACCCTGCCCC CTCCAACCTC GAG 343

(2) INFORMATION FOR SEQ ID NO:1086:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 531 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1086:

GAATTCGGCC TTCATGGCCT AGGGCTGACG CGCCACTATG TAGCGGGTTT CGGGCGGGCC 60
ACGCGTGCCG GACAGGAACC CAACCCAGC CGACCTTGAG CTCCAGGAGT TCGTCTCTTA 120
CGTCTGCGGA AGTGCAGCTG CCTCAGTTCT TAGCGCAGGT TGACAACTAC AGGCACAAGC 180
CATTGAAGCT GGAATGTCCT GTTGCTGGTA TTTCAATTGA CTTAAGCCAA CTATCCCTTC 240
AGTIACAATA GGAAAGTGCC TCTAATAAGG CCAAATATGC GTACTAACTT GTAGCAACCA 300
CGTGTCCTGC CAGTGCCACA GGAGCTAGAG CAGTGACAAT GCTGGTGGCA ACAGGGCAGT 360
GTAGCAGGTG CTTTCATGTT ACCTTTTCAA CCTTTTCATT TAATTGTCAC AACTCGGAGG 420
TGGATTCTGT TAGGGACAGG CTGCCCCAGG ACCACTCCGC CCCCCTAAC TCAATGCAGC 480
TGACCCTTAC CCTGAATACT CTGCAGCTGC ATTCTGTAAC CATATCTCGA G 531

(2) INFORMATION FOR SEQ ID NO:1087:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1087:

GAATTCGGCC TTCATGGCCT ATGACTAGCC ACCAGGAAGG ACATTCCCTG CTCAGCTGTC 60
CCATTAAAGT CACCTGCTCC TCTCCTCCAC GTTAGTTTTT TTCTAGCCTG TTTATTCTTC 120
CCTGTAAGAG AAAAAGAGAA AAGCCTATTT CTATCTGATC TTTGAGATGC TTGCAGATCT 180
TACCTTTGAA GCATTCTCCT TATTGCAATA GTCTCCCTGA CCCTATTGCA ATAGTTCCTC 240
TCTCCCTGTT TGTATTCAAC CATTGAGCT GCTATATATA GCAAAATACC ATAAGCTGAT 300
AGCTTATAGA CAATATAAAT TTAATTCCCA CAGTTCTGAA GCCCCGGAAG TCAAAGATCA 360
AAGTAGGCCA TGAA 374

(2) INFORMATION FOR SEQ ID NO:1088:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1088:

GAATTCGGCC TTCATGGCCT AGGAATGTTT CCTTTTGGTT CATTGTAGGC ACATCTGAAA 60
AAGAAGTTAT GAGTCACTCG TAGTGAGGTT TTAATTGACC TGTGACTTGG GATCTCTGGG 120

GATCATTTGGC AGTCTGTCTT ACACGTGTAT TTATAATTCA TGTCTGATCA TCTTCTTAAG	180
GAAGTCTGCA TCGTTTGCCT TATGTAGAGC ATTAAACACA AGGATCTGNC ACATTACTTC	240
TGTTGCCATT TTTGCTTCTC ATATCCCTGA CCACCCACCA CACTCGAG	288

(2) INFORMATION FOR SEQ ID NO:1089:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1089:

GAATTCGGCC TTCATGGCCT AAGTAGTTAA ACTCATAGAG TTGCAAAC TA GAAAGGTGGC	60
CCCCAGGGGT GGGCAAGAGA GAGGAGTGGA GAGCTTGGTG AATGGGTGCC ATTTCCATTT	120
TGAAAGATAA AACTGTTCCG GAGACGATGA CCGTGATGGT TGCTAAACAA TGTGAACGTA	180
CTTAATGTCA TGAAACTGTA AACTGAAAAA CAGTGGAAAT TGTAATGTT TATACTGGCC	240
ATTCTATATG AACTAATATA TATTATAAT TTTAATATT TATACATGGT ATATTTTCCC	300
ACAATAAAGA TGAAATTAAG AGCAGTTGGT CTCGAG	336

(2) INFORMATION FOR SEQ ID NO:1090:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 559 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1090:

GAATTCGGCC TTCATGCCTA CAGAGGCGAA AGGAGAGTCC AGTGAGAAAC CAGCCATTGT	60
CTTCATGTAC AGGTGCGACC CTGCTCAAGG CCAGCTCAGT GTGGATCAGA GCAAGGCTAG	120
GACAGACCAG GCAGCAGTCA TGGAGAAGGG TAGAGCAGAG AATGCATTAC TACAGGACTC	180
AGAGAAGAAG AGGAGTCATT CTTCTCCATC ACAGATTCCCT AAAAAGATTG TCAGTCACAT	240
GACCCATGAA GTAACAGAGG ATTTTCTCC TCGGGATCCA AGAACTGTTG TTGGGAAGCA	300
AGATGGCAAG GGCTGCACTT CAGTCACAAC AGCATTGTCC CTACCTGAAC TGGAAAGGGA	360
AGATGGAAAA GAAGACATTT CAGATCCTAT GGACCCGAAC CCTTGTAGTG CAACATACAG	420
CAACTTAGGG CAATCTAGAG CAGCCATGAT ACCTCCCAAG CAGCCACGAC AGCCCAAGGG	480
AGCTGTGGAC GATGCCATCG CCTTTGGAGG GAAACAGAC CAAGAAGCAC CCAATGCTTC	540
CCAACCTACA CCACTCGAG	559

(2) INFORMATION FOR SEQ ID NO:1091:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 398 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1091:

GAATTCGGCC TTCATGGCCT ATTCTTATGT GTGTTTCAGG ACGACTGGGT TTGGATTTCAG	60
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AAGAGGATTA TTATACACCA CAAAAGGTAA AATCAGAAGC AACTTATTTT TAAAACCTAT      120
CTTAAGTCGC ACAGACTCCA TAATATGTCC TCTTTCCTTG GCTCTGTTGT ATCAAGGTGT      180
TTATTTCCGA AGTGTTCCTT GTTTGGGAGA CTGACAATT T AGGATTCCTG ATTTAGCACC      240
CTGTGGTCTT GTCATCTGAC CAAATCACAG AAAATTGAGA AAGTGGATAC AGCGACTGTG      300
GACATTGTGA AGTCACATCT TACTCAGGGA TGACAGCTAA AATCAGCGTG TACAGCAGAA      360
AAGTCACATA TAGCTACAAA TACCCTGGAA AACTCGAG      398

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(2) INFORMATION FOR SEQ ID NO:1092:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 436 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1092:

```

GAATTCGGCC TTCATGGCCT ACGAGTTTTC TGCAAGTCAG CCATGAAGTC TATGCTCTGC      60
TTCAGGCTCT GAATTCTTTC CTGGCTAAGA ATTTTCATT C TGAGTGCAA CAGCTTCTTT      120
GCAGCTTTAT AATAAATGGT CTCTGGTTTA TTGTAAATCA TGGCATTAGT ACACATTAGT      180
TTGAAGTTAT CCTTTAGTTC TTCTATGGAC TGATAGTCAT TGTTCTTGAT CTTTCTTTTC      240
ATGGTACTAA AATCCATTGG GTGTTTAATG ATCATGGAGT AGCCAGGAGC AATAAAATCA      300
GTCACAGGAA ATGAAAAGAA AGCACTTGGG TCTTTTCTCT GCAATTGTCT CATCAGTTGA      360
TTCAAAGCTT CTTGAAGGGG TGTCTGTTCT ACTTCTTCTT GTTTGGCTAA AGAGCTTGTG      420
AGAGGCTTCG CTCGAG      436

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(2) INFORMATION FOR SEQ ID NO:1093:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1093:

```

GGGGCAGGGA GCCTGGCCAG GCCTGAGACA CAGAGGCCCA CTGCGAGGGG GACAGTGGCG      60
GTGGGACTGA CCTGCTGACA GTCACCTCC TTCTGCTGGG ATGAGGTCCA GGAGCCAACT      120
AAAACAATGG CAGAGGAGAC ATCTCTGGTG TTCCACCAC CCTAGATGAA AATCCACAGC      180
ACAGACCTCT ACCGTGTTTC TCTTCCATCC CTAAACCACT TCCTTAAAT GTTTGGATTT      240
GCAAGCCAAT TTGGGGCCTG TGGAGCCTGG GGTGGGATAG GGCCATGGCT GGTCCCCAC      300
CATACCTCCC CTCACATCA CTGACACAGC TGAGCTTGTT ATCCATCTCC CCAAACTTTC      360
TCTTTCTTTG TACTTCTTGT CATCCTCGAG      390

```

(2) INFORMATION FOR SEQ ID NO:1094:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 559 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1094:

AATTCGGCCT TCATGGCCTA GAGGGATTG TTAACCACTG CCACCATGTA GTTCTGGAAA	60
CGGAGGATGC GGTGGTAGAT GTCCAGTTCT GTCAGCTCAC GTTGTGGAT GCAGATCTGG	120
TGCTCCTTCT GCGTCTGCAC GATCCGGGCC TGCACCTCTT GCCACGTGCA ATACGGAAGG	180
GCAGACATAG GGATGCGCAG AGCGTGCAGG TAGAAGGAGT GGATCTCCCA GTAGCAGCAA	240
ATGTTATAGA TGAACCTGAT AAGCCGGTGG ATCCAGAAGA CACCAGCAAT GACCAGGATG	300
GTGATAAGGG AGCCATTTTC CTGAATCCTG GCACTACAGA CTTGAGCAGG CAAAAAGGCG	360
TCTGGCAGAG TGACCTTGAC GGGTTCAGTA GGGTGAAGAC TGTGGTTCAC CATCTTGTG	420
GCAAATAGGA TGTCATAGTC CACGCAGCTG ACCAGGAAGG TAGTGAAGGC AACCACAAAG	480
AGGAAGTGCA TGAGCTCAA GATCTCCCG ATGAGCATAC ATGTGAAGCC ATTCTTCTGG	540
TGCAGATTAT AAACCTCGAG	559

(2) INFORMATION FOR SEQ ID NO:1095:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 224 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1095:

GAATTCGGCC TTCATGGCCT AGGTTTGGAA AGTAAGACAT ACTGGCTTCC TTTATTCA	60
TTAGCATTTT CCTATTATTT TGGAACCAAC AATTCCATGT TCATTGAATT TCCTTTTTTT	120
TTTTTTTTTT AAAGACTGCA AATTTTGGCT GGGCACAGTG GCTTGACTCT GTAATCCTAG	180
GTACTTAAGA GGCTAAAGCA TGAGGATCAC TTGAGGGACT CGAG	224

(2) INFORMATION FOR SEQ ID NO:1096:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 534 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1096:

GAATTCGGCC TTCATGGCCT AGTTCTCTCT GATTGTTT GTTCTGTCTC AGGCTTCTGT	60
GGCAGGACTG GCCCAGGGAG GAGGAAGCCA GCAGCACACC TGGGGAATGG GTTCCCGGCC	120
GGGAGGCTTG GCCTCTGGGC GACCTCGTCC TGTTTTGTTT GTTTGTTTGT TTGTTTTTTT	180
AAAGGTAAAC CTCCTGGGCC GCAGATGGCA AAGGGAGTGC CTGGGCCTGG TGACCCAGGG	240
CTGGATCCAC CCTGCGGAG CCTGGGCCA GGCAGGTGTC TGCTGCTCAC CTGGCTCTGG	300
AGGGCTGCCC TGCAGCTGGG CCTGGGGACA GGTCGGCTGT GGGGCAGCTC AGTACCCTCC	360
CTGAGGCTCA CGGTGGCTCC GAGCATGAGC TCTGCCTCCT GGGCGAGACC CAGCAGTGGA	420
CAGCACGGTC CTCACACCCA GCTCCCTGCA CACCAGGCC AGCCACCCCT CCCGCTCGTG	480
CACAGGCACG CAGATGCGCT CACACGTACA CACACACAAA TGCAACGCCT CGAG	534

(2) INFORMATION FOR SEQ ID NO:1097:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 606 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1097:

GAATTCGGCC	TTCATGGCCT	ACTTTATTGG	TGGACATTAA	GAATGGAGGA	ATGTTTCAAC	60
AAAGGAACAA	TCAACAGTAT	CAAAATACTG	CAGAGGGGTC	AATTTGGGGA	CTAAGAGGGG	120
AGCCACTGGA	TTTGACAAC	AGGAGATAAA	TTTGTAGTGA	ACGATGAAGG	CAGAATCCAG	180
AGTATAATGA	GCTCAGTGAA	AAAAGGTGAA	NACATGTAGC	TTATTCTCTC	AAGAACTAG	240
GCTATGATAA	ACTGGCAGAG	GCTCTAAGAG	TGGGAGGTGA	GTTGTTTTCT	CCTTCATGTA	300
AATATATTTA	CCTTTTAAAC	ACTAGGCCCA	ATTTTATATC	CTATTTCATT	TAACTTTATG	360
AACATATTTA	TGTATGTATG	CATGTATGTA	TGTATCTCAT	GTGATGTTTT	AGACACTGAA	420
AAATAACTCA	TTTCTATTAT	AAAACGATA	TCTTTAGATG	TTTCAGAAGC	AACTTCCTAA	480
AAGGAGGTAG	CAGTAATGGA	GCTATGTCTA	TCATTCTTTC	CCATCAACCC	CCTTGATGGA	540
GATGTAAACA	TGTGTCCATC	AAGCCTTTAA	TTTTTACNTC	TTATCTTCAG	GGCTCTGCCG	600
CTCGAG						606

(2) INFORMATION FOR SEQ ID NO:1098:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1098:

GAATTCGGCC	TTCATGGCCT	AGCAGAACAT	GGATATTTTT	CCTTTAATAT	TTAGTACTTG	60
GGCTATCATG	AAACAAGGTT	AGCATAACCA	TCCAAAACCC	CAAGTGCTCC	AAAATCCAAA	120
ACTTTTTTAA	CACCAACACG	ATGCCCAAAG	TGGAAGATTC	CATACTTGAC	CTCATGTGAT	180
GGGTCTAAGT	CAAAATGTAG	GCAAACTTT	CACGCACAAA	ATTACTTAAA	ATATTCTACT	240
GAGCCAGGCA	TAGTGTTTCA	TGCCTATAAT	CCAGCACTT	TGGGAGGCTG	AGATGCCAAT	300
TGCTCGAG						308

(2) INFORMATION FOR SEQ ID NO:1099:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1099:

GAATTCGGCC	TTCATGGATG	ACCGCAGCAG	GCTGGTCAAG	CAGATGGAGG	ACAAGGTGTC	60
TCAACTGGAG	ATGGAAGTGG	AAGAAGAGAG	AAACAAGTCA	GATTTGCTGT	CTGAGAGGAT	120
CAGTAGGAGC	AGGGAACAGA	TGGAGCAGTT	GAGGAATGAG	CTACTTCAGG	AGAGAGCTGC	180
GAGACAAGAC	TTGGAGTGCG	ACAAGATTTC	CCTGGAGAGG	CAGAACAAGG	ACTTAAAGAG	240
CCGATTATC	CACCTGGAAG	GTTCCTACAG	GTCCAGCAAA	GAGGGGCTGG	TTGTGCAGAT	300
GGAGGCCAGG	ATCGCGGAGC	TGGAGGACCG	CCTGGAGAGT	GAGGAGAGGG	ATCGGGCCAA	360
TCTTCAGCTC	AGCAACCGGC	GGCTGGAGCG	GAAAGTGAAG	GAGCTGGTGA	TGCAGGTGGA	420
TGATGAGCAC	CTGTCAATTGA	CTGATCAGAA	GGACCAGCTG	AGCTTGCGTT	TGAAACCCCT	480
CGAG						484

(2) INFORMATION FOR SEQ ID NO:1100:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1100:

```
GCAGATTGAG GACCTCCAGA AATCTTTACA GGAACAAGGT TCCAAGTCTG AAGGCGAAAG      60
TTCCCAGCAA ATTAAAGCAG AAGTTGGAAG CTCATATGGA AAAACTCACA GAGGTCCATG      120
AAGAATTACA GAAGAAACAA GAACTCATTG AAGATCTTCA GCCAGATATA AATCAAAATG      180
TACAAAAGAT CAATGAACTT GAAGCTGCTC TTCAGAAGAA AGATGAAGAT ATGAAAGCAA      240
TGGAGGAAAG ATATAAAATG TACTTGGAGA AAGCCAGAAA TGTAATAAAA ACTTTGGATC      300
CCAAGTTAAA TCCAGCATCA GCTGAAATAA TGCTACTAAG AAAGCAGTTG GCAGAGAAAG      360
AGAGAAGAAT TGAGATTCTG GAGAGTGAAT GCAAAGTAGC AAAATTCCGT GATTATGAAG      420
AAAAACTCGA G                                     431
```

(2) INFORMATION FOR SEQ ID NO:1101:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 557 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1101:

```
GAATTCGGCC TTCATGGCCT ACTGGGAATC TCTCAGCAGC TTTTGGCCAA ACAGATGGGC      60
CAGGAGCCGC GGAACCAGGC TGAGGAATGT TGCCCTCAGC TCTCTCATAT CCATTCTCTG      120
CACCCACCAG CCCAGGGAAT GCCTCTACCA GTTGTACGCG AGAGGCTTAC ACAGCATCTT      180
AAATAAAAGG GATTATTGAA CCAAGAGGCC AGGGACTGAT GGAAATGCCC ACCTTGCTGG      240
CTCATTGAAA AAGTTTGGCA AGGTTGTCAG GAGACATGAA TTAGATGGGC TTGGGTCTTG      300
TGCCCTTTGC TAAACCAAGT GCTGTATTGG GAAAGAGACG GGGAGAGAAG TGTGGAGAT      360
GCTCTTTAGT CAGGCCTGAG TCACTTGCCC AACCTGGAG TTGGAGTTGG GGATGGAGCC      420
AGGATCTCCA AACCACATGC CCCTAGAGTT TCAGGAAAAA TATGGATTGT GAATTGAAGA      480
TGGGGGGTGA TGTAAGGCAG ACAAGGACAG AAAATCCCTC TTCCAGCTGT GATTGGCTG      540
TGAGTTTGGC GCTCGAG                                     557
```

(2) INFORMATION FOR SEQ ID NO:1102:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 577 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1102:

```
GAATTCGGCC TTCATGGCCT AGTTTTTCTA GAGTGAATTA TAGTATTGAC GTGAATCCCA      60
CTGTGGTATA GATTCCATAA TATGCTTGAA TATTATGATA TAGCCATTTA ATAACATTGA      120
TTTCATTCTG TTTAATGAAT TTGGAAATAT GCACTGAAAG AAATGTAAAA CATTTAGAAT      180
AGCTCGTGTT ATGGAAAAAA GTGCACTGAA TTTATTAGAC AAAGTTACGA ATGCTTAACT      240
TCTTTACACA GCATAGGTGA AAATCATATT TGGGCTATTG TATACTATGA ACAATTGTGA      300
AATGTCTTAA TTTGATGTAA ATAAGTCTGA AACAAGAGAA AATGTTTTTA ACTTAGAGTA      360
GCCCTAAAAT ATGGATGTGC TTATATAATC GCTAGTTTTT GGAAGTGTAT CTGAGTAACA      420
```

GAGGACAGCT GTTTTTTAAAC CCTCTTCTGC AAGTTTGTG ACCTACATGG GCTAATATGG	480
ATACTAAAAA TACTACATTG ATCTAAGAAG AACTAGCCT TGTGGAGTAT ATAGATGCTT	540
TTCATTATAC ACACAAAAAT CCCTGAGTGA CCTCGAG	577

(2) INFORMATION FOR SEQ ID NO:1103:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1103:

GAATTCGGCC TTCATGGCCT ACATGGACCT CCTGCACAAG AACATGAAAC ACCTGTGGTT	60
CTTCCTCCTG CTGGTGGCAG CTCCCAGATG GGCCCTGTCC CAGGTGCAGC TGCAGGAGTC	120
GGGCCCAGGG CTGGTGAAGC CTTCGGAGAC CCTGTCCCTC ACCTGCACTG TCTCTGGTGC	180
CTCCATCAGT AGTGGTGGTT ACTACTGGAG TTGGATTCTG CACCACCCAG GGAAGGGACT	240
GGAGTGGATT GGGCGAATCT CTCACAGCGG GCACACCAAC TACGACCCCT CCCTCGAG	298

(2) INFORMATION FOR SEQ ID NO:1104:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1104:

GAATTCGGCC AAAGAGGCCT AGTCATCTTC AATATCTCTC TCTCTCATCC CTCATTAAA	60
TCATTCACCA AGTTTGTACA GTTTTCCTTT GCAATGTGTC TCCAAATGGT CATCCTCTTC	120
TCCTTTTTC GATTAGGATT CTGTGTTTCT TTACTCATTG GTAAAACAAG TTGGGGAAT	180
GCTAGTTACG CAGTTAATGG TGTAGTTACC GCAGGACTTG ACAAACCTC TAATGAAAGA	240
ATAAAACATT TGCTATATTT GTTGATCAG AGAACTTTT TTCCATCTCA GGGGATCATT	300
CTCGAG	306

(2) INFORMATION FOR SEQ ID NO:1105:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 535 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1105:

GAATTCGGCC AAAGAGGCCT ATAGGCCTCT TTGGCCGTCT AAATGAAATG ATTGCACTGC	60
ACATACTTCT AAAACTGTCC TGCATTGTA TAGCTTCCAT TTCATGGCGC TTCTTCTGGA	120
TGTCAGGCAC TAAGTCGGGC GCTTTATTCT GTAGTTCTCC TAGCAATCTG GTGAGCTCCA	180
CTCTACAGAT AAGGAAATCG AGGCCAAGGA CAGCTAAAGA AGCGAGGTGC GCAAGGTGCC	240
CAGGTCCGAA GTGTTTCCGC TGCTTTCAGA CTGCAGTCCC AGGGCTCAGG AGTCCATGCT	300
TTCTGCGTAT CTCACGCTG GCCACGGATC ACCTCATCAT TAGATGTCGA AGTTGAACAA	360

GTGGTGTTC	CATTGCGACG	TGTGTTAGGT	AGAAGTGTGT	GTGCACCTGC	GTGTGCGTGT	420
ATGTTCCACA	CGCTGATGCA	GGAGGTATAC	GCACAGATAT	AATTGTCTTT	TAGAAGATTG	480
ACTATCACTA	ATTTTGAAAA	ATTTCTTGAA	TGACCTTTCC	GNCCCGGCGC	TCGAG	535

(2) INFORMATION FOR SEQ ID NO:1106:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 586 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1106:

GAATTCGGCC	NAAGAGGCCT	AGAAAAAATT	AAAAAGGGAT	ACAGACGAGC	TGCNAGCTAT	60
GGAAACATAGA	TATTAACCCC	CAAAGAGTCN	TAACCACAGC	TGACTCTTAG	CTTCACAAGC	120
AGNCCTCNGA	ANGTGGTAGC	TTGTTTAAAG	CAGAGGCCAT	GCAGAACCCA	TGAAACCAAA	180
GGACAGAGCC	AGTAGGGCTG	GAGTCTGACC	AGAAAGTTCC	ATGCCCTCTG	CTTTCTGCAT	240
GGAAAATGAC	CTGGTAGGTT	TTAACCTATC	CAAGACTACA	GAGGATTTCA	GAATTTTCAGT	300
TTGAGGTATG	CCTCAAAACA	TTCCAGCCTT	GATCATGAAA	GAAAGAAGTG	ATCAAAATAC	360
CATATGTCAC	AATGGAAAAC	CCAAGCGGCC	CCAGAGCTCT	TCTTCAGTAA	TGAGATTTAG	420
TTGATCTGNA	CAGTTATTTA	TGCATTGAGG	TCATATTTTG	GCCAACTCTT	TGCTTACAGC	480
TGTCGCCAAA	TAAAGCCTTC	TGTNTTAGCA	TTTCTTTTAC	CAAAATCAGG	TTGAGAGATG	540
GTTCCTTGAG	AGGACTGTTT	TGTCAGGGAA	TACAGGGAAAT	CTCGAG		586

(2) INFORMATION FOR SEQ ID NO:1107:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1107:

GAATTCGGCC	AAAGAGGCCT	AGGACTTAAA	AGAACAGCTA	GAAAAGATGA	AAGGTGACTT	60
AGAAAGTAAA	AATGAAGAAA	TACTACATCT	GAACCTAAAA	TTGGACATGC	AGAACAGCCA	120
GACTGCTGTC	AGCCTCAGAG	AACTTGAGGA	AGAGAACACG	AGCTTGAAGG	TCATATATAC	180
CAGAAGTTCT	GAGATTGAAG	AGCTGAAAGC	CACTATTGAA	AATCTGCAAG	AGAATCAGAA	240
ACGATTACAA	AAGGAGAAAG	CAGAGGAAAT	TGAACAACTC	CATGAAGTCA	TTGAGAAGCT	300
GCAGCACGAG	CTGTCCCTCA	TGGGGCCTGT	GGTGACCGAA	GTCAGCGACA	GTCAGGCTGG	360
CAGTCTGCAG	AGCGAGCTGC	TCTGCTCCCA	GGCCGGGGGC	CCTCGTGGGC	AGGCCCTACA	420
GGGCGAGCTC	GAG					433

(2) INFORMATION FOR SEQ ID NO:1108:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1108:

GAATTCGGCC AAAGAGGCCT ACGTGAATAT TTTTCCATCT GTGTTTCATTG ATGTTAACAA	60
TAAAAATCTT GTTTATGTGT ATAAGCCTAA CATATGCCTG TGGGTCTTAT AACTGCCTGT	120
TCAAACCTCAA TGGGATACCA AAAATGTATC TGCTTACTTT GGGGGTCTAA CTTTAATTCG	180
GTACATATAA ACATCTCTGG AAAAAAATGT AGTTTTTTTC TCCCCCTGC TGTTTCCCC	240
AGGCTTTCTC CTTTGACCTG GCCACGGTTC CCATAGACTA CAAGACGACT TAGAGACATT	300
GCTGTGACAT CTCGAG	316

(2) INFORMATION FOR SEQ ID NO:1109:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1109:

GAATTCGGCC AAAGAGGCCT ACTAACATTT TCCTAATCTT ATGTGTTTGG CTCCTCTCAT	60
TTACTCCCCA CAGCAGCCAC ATGAAGTTGG AATTTTGAAC TCTTATTTAG GTATGCAAAA	120
GGGTACCAGT TCTCTTTAAG GCTTTAGTTC AGGAGTGGTG TTAATGTATT AATGTGTTGG	180
GGCGCGAGAG GAAGGCGGTG CTTATTTCTGA ATCATGGTAG GTAAAGATAA TTTCAACTCT	240
GACACTTCCA CTAATAAATT TTCGCATCTA GGGAAAATGA CGTAAGCTTC CTAGATCACA	300
GATTTGTTTT CATCCAAAAC CCGAAGTCTG GTTTTGAAAT CACGCTCTTG ATACAAAGGT	360
GGCTCGAG	368

(2) INFORMATION FOR SEQ ID NO:1110:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1110:

GAATTCGGCC AAAGAGGCCT ATCCGGGGGG AGTAAGGTGA GGACAAGGAA CAGAAAGGCG	60
TGAGGTGATG GAAGGAAGTC CGGGAGAACC ATATGAAGGA GCAGGAGGAG AGGAAGAAAC	120
TTTTTTTCTT TCTTTCCAG GAGTAGCTGG AAATTAAGAT CGGGTTCCTT TTCTGCCAGC	180
TTGGAAGGGC AACCCCATGA CTGATTGCGA TTCTGAGGAT GTCTATGCAA AGTTGGATTC	240
TTGTTACAGT GTATCCAATC TGAAGTATTG CACATCTGAA CTGGGACTGT TAACACTGAT	300
GCCAATACAG TGTGGGGTGC CAGAAAGTGT CTGCTGATAT TTGTGGAAAA AAAATCTATT	360
TTGTTTACCT ACTGTATCAA AGGGGAGGAA CTCGAG	396

(2) INFORMATION FOR SEQ ID NO:1111:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 427 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1111:

GAATTCGGCC	AAAGAGGCNT	AGATTGTTTT	CATTAGCAAA	CTCATAATTA	TCCTTTTCCT	60
TAACACTTCC	AGTTGAGAAA	ACAAGTATTT	GTTAATGACC	AGTAATAATC	TTGATCCAGG	120
GTAGGCAAAA	TTTTTCTTCC	AGGGCCAGAT	TGATACTTTA	GGCTTTGCAG	GCCACGGGGT	180
CTCTGGCAAC	CCCCAGCTCT	GCTGTTGTAG	CACAAAAGCA	GCCACAGGCA	CAAGTAAACA	240
CATGGGTGTG	TCTCTGTACC	AATAAACTT	TATTTACAGA	AACACAGGGC	AGATGACTGT	300
CTGGCCCCTG	GTCTTGTGAG	CATTTTGTGG	TGGTGAACAA	AAGAACTGT	TCAGATCATT	360
ACATTACAG	TCATTACCAA	AAATAGAATC	TTACAGTAG	TTGTACTGTT	GATGAAGCAA	420
GCTCGAG						427

(2) INFORMATION FOR SEQ ID NO:1112:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 504 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1112:

GAATTCGGCC	AAAGAGGCCT	AGGTTATAAT	AGCAGCTTAC	TTTTGATAAG	CGTACTAACT	60
GGTACATAGT	AAATACATAC	TGTGCATGCA	TTATGTCATT	TATATCCACA	CAGTCACCTT	120
CAAAATCAGT	ACAATTTGTA	TTCCCGTTTT	ACAGATGAGA	AAGCATATTT	TGGTGAAGTC	180
AACCAAGGTT	ACATGACTAG	TAAATTTTAA	ATGAGATTTA	ATTTCACTAC	TTACTAACCA	240
TTATGCATTG	CTAAATTGTA	ACATTACTTT	AAAATATAAC	TTCTAAAGTG	TTCATATTAG	300
AAACCTATAA	ATATACATAG	ATTGTCTCTC	TCTCTNACGA	AGAACACATG	AAGGAAAGAA	360
AGATATTAAT	TTGGTGGCTT	ATCATATGCC	AGACATAGAT	ATAGATGCTT	GTATGTATGG	420
CATTTAATCC	TTATCTGTGA	GGTAGGTCTT	TTTATGCCTT	TCTATAGATT	TAAATTAAAG	480
GTTCACTTTA	GTAAGTTGCT	CGAG				504

(2) INFORMATION FOR SEQ ID NO:1113:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1113:

GAATTCGGCC	AAAGAGNNCT	AGAGGGATAT	AGAAACTTAA	CAGCAGTGGC	TGACATTTTT	60
GCTTATTTGT	TAGGTATTGG	TGGTGGTGTT	AATCGGGTAC	GCATATGCTT	TCCTTAGGAT	120
TTGCATTTGC	TGTTCCCTGT	GTCTAGAACG	CTATTCCTTA	GATAAATCTT	CATTCCTTAC	180
CTCCTTAAAA	TGTTTTCTCA	TCTATCACCT	TCTTAAGTCT	GTACTGATCA	CCCTACTTAA	240
AATTATAACT	GCCCCCTCTT	GCTTGCACTT	CTAAGCTTCC	TTACCCTAGT	CTGTTTAGCA	300
GTACCTCCT	TGAAACATGC	TCTGTAGAAT	TTACTTATTA	TGACTATTGT	CTCTCTTACT	360
ACCCTCGAG						369

(2) INFORMATION FOR SEQ ID NO:1114:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 89 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1114:

GAATTCGGCC AAAGAGGCCT AGTTAAAAAT AGAATTTGAG ATATTTAATT TTCTGCTCTT	60
TTTAAGTTAT GAAAACGTAT TTAAGTCGAG	89

(2) INFORMATION FOR SEQ ID NO:1115:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 495 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1115:

GAATTCGCCA AGAGCCTATT AATTTGTAAA CCTTAATATA GTGTAACTG AATAAAAGTA	60
AATAATTATT ATTAGAATGG TAACTAAGTC ATTAATTTT TTNGCAGAAC TGAAACTTGT	120
ATGTTATTAG TTATTTTCT TAGACCAAGT TAATAATGGA CTGTAAATAG AAAAATAAAT	180
GTCACTTTAC AGTTAGATGT ATCACAGTCG TTTCAGGAGA ATTTTTCCTA TATTGTTACC	240
TTGATTCATT GTTTAAATTT GGTAGGATTT GTATAGATAT AGGATAGTGT TTTATTTATA	300
CTTTATCATA AGCCATAATC ATTTTAAGAA TACTTTATTG GATAGATTTT AGTACTTTTT	360
AAATTCTAAA GTTCTATTTT TCTTTTCACT TCCCCTTCTT TCCCCTTATA AGATCATTTT	420
CATGTCTTTG TTGGTGATCT CAGCCCAGAA ATTACAACTG AAGATATAAA AGCTGCTTTT	480
GCACCAAGTC TCGAG	495

(2) INFORMATION FOR SEQ ID NO:1116:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 522 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1116:

GAATTCGGCC AAAGAGGCCT AGGGAAAAGA AGGGCTTTGG GGACCTGCCC ACTTCAAAAA	60
CAGTTTTTCT CATCCTTTGC CTTGCGCTCC AAACCCAGCT TGGTGTTTC CTAAGGGAGC	120
TACAAATTCT GGAGCATCCC ATGAGGATGA TTTGCTGGCC TCGGTCATTA GGGGGAAGG	180
ATGTTCTCAG AAAACAGCC CTGCACGCTG GTACAGCAGAG ATCTTGAGGT CGTGGCCACG	240
ACTGGACTTG GTGCAGAGCT GAACCCGAGA CTCCAGCTGC TCGCTGAGTT CGTCCAGAGC	300
CCCGGTGCAG GACTCCAGGC TCTCGGCCAG TTTCTGAATC TTGGCCTTCA GCACGGCCTG	360
GCTAACCTTG GTGTCCCCCT CCGCCCGCCT GGGGATGAGG AAGCCACGTG AGCCAAAGAA	420
GACGATGAAG TAGACAGAAT TGTACAGGGC GATGGAGGCG TTCCTCCCGC ACTGCAGCAG	480
CTGGCGGTCC CCGCAGCCCT GCCAGCGGCA GAAAAACTCG AG	522

(2) INFORMATION FOR SEQ ID NO:1117:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1117:

GAATTCGGCC AAAGAGGCCT AAAAATATTT TACTTGTTCC ATCCACAGTT CTCTACAGAA	60
AGAACCAATG AACCCAATAG GAACAAATTC TCTGTGAAA ACAAAGCATA GCTGTAGTAG	120
ATACGAATCC AATCACAGAG GAAACAGGAA GAGAAAAACA TCCAAGACTA TAGTGAAAAC	180
TGGAATGGT CTGTTTTCGT GATATTCGTA TGATTAAGAT GCAAATTTT TCTTAGGAAA	240
ATGTGATTGT TAACTAGCAT TCTGTTTAC ATGTTGACAT TTCTAACACA CACACCACTG	300
ATTGAACTT CAAAATTTAT TTTCTGATTA TATATGCTAG GTCATGCTCG AG	352

(2) INFORMATION FOR SEQ ID NO:1118:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1118:

GAATTCGGCC AAAGAGGCCT AGTGCCCACT CATTTATGTA CTGTCTATAG CTATTTTCAT	60
GCTACAATGG CAAAGCTAAG TAACACTCAA GGCCTAAAAT ATTCATAATA TGCCCTTTGA	120
AGAAAAAGTT CACTCAACTC TGCCCTAAAC TACAGACCCT GGCCAAGGTG GGAGGATCAC	180
TTGAGGCTAG TAGTTCAAGA CCAACCTGAC TCTGTCTCTG ACTCTGTCTC TACCAAAAAA	240
AATTAGCTGG GCGTTGGGCT TATCCCTGTA ATCCCAGCTA CTCAGGAGTC TGAGGCAAGA	300
GGATCACTTG AGCCCAAGAG TTCAAGGACA CAGTGAGCTA TGATTGCACC ACTATACCCC	360
AGCCTGGGCA ACAGACCAAG ACCCTGTCTC TAAAAACATA AAATAAAAAA TAAAAATAA	420
AAATAAATAA TAAAGAAAAA AGAAACAGAA TTAAAGAAAT TCTTTTGCTC AAAGTCTCGA	480
G	481

(2) INFORMATION FOR SEQ ID NO:1119:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1119:

GAATTCGGCC AAAGAGGCCT AAGTTGTGTC AGTGTCTCTC CTAAGGTAGT AAATATAATT	60
GACTTATTCT GAACCCATTC TATTTTGAAT CTCCCCTTC CTCTCACAAT ACTTGACAT	120
TTTAATCTTT TGGAATATTG TCTTCTTTG TTATAACTAT TCATTTTATG CTTTGTCTC	180
CAGTGCATGA TCTCATATTT TTGCTTTTAT TTTTAGTATA AGAACATTTA TAAAATCATA	240
TTTTTGTTAC TGCAATTGTT TTATTTGTTG TGTGGCAAT GAGAAATCCT TTATTTATTG	300
TGCTGTATCT CGAG	314

(2) INFORMATION FOR SEQ ID NO:1120:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1120:

GAATTCGGCC TTCATGGCCT ACCAGATACT GTTTTTTTAA TACATATTCA AAAGAAAGCT	60
ATTAACCCCTG ACAGACATTT CTCAGTCTGT GCTTTTTTCT ATTTTATCAT TTTAAAGTAC	120
TTAAGATAGA AAGATGAAAA AGCATTGTGT GGCTACTTGG TTAGCTTCAC AAATTTTCCC	180
CCTTCCTACG CAGCTCGAG	199

(2) INFORMATION FOR SEQ ID NO:1121:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1121:

GAATTCGGCC TTCATGGCCT AGTAGCATAT TAACAGTGTA ATAAAAAATA AAAACAAACT	60
CTAGTATCCA GAGGATCACA TGCTGACCAG ACCCTGTGTA GAAAGTGCCG AAGAGCATCA	120
AGGAAATGGA AACGTTGGAA TTCCATCCGT GCTTGTGGCT TTCCTTAAAC TTTTGTATG	180
GAAAATTTCA AATATACCCC GAAGTGGAGA TTGGCTTAAA TCAGCCCCAC GTGCCCATCA	240
CTGGGCTCCA GTCATTATCC AGTGTGGTTC CTCTGATCTT CACCACCCCC TCGAG	295

(2) INFORMATION FOR SEQ ID NO:1122:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 410 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1122:

GAATTCGGCC TTCATGGCCT AACGGAAGCG TCTCCTCATT GATGGAGATG GTGCTGGAGA	60
TGATCGGAGA ATTAATCTGC TAGTGAAGAG TTTCATTAAA TGGTGCAACT CTGGGTCCCA	120
GGAAGAGGGA TATAGCCAGT ACCAACGTAT GCTGAGCACG CTGTCTCAAT GTGAATTTTC	180
AATGGGCAAA ACTTTACTAG TATATGATAT GAATCTCAGA GAAATGGAAA ATTATGAAAA	240
AATTTACAAG GAAATAGAAT GTAGCATAGC TGGAGCACAT GAAAAAATTG CTGAGTGCAA	300
AAAGCAAATT CTTCAAGCAA AACGAATACG AAAAAATCGC CAAGAATATG ATGCTTTGGC	360
AAAAGTGATT CAGCACCATC CAGACAGGCA TGAGACACAG GGAACCTCGAG	410

(2) INFORMATION FOR SEQ ID NO:1123:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1123:

GAATTCGGCC AAAGAGGCCT ACCTTTCTTT CCTCCCTTCC TCCTCCCATG TCCCTCTCTC	60
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CTCCCTCCCA	CCTCTCACCC	TTCTCCATCC	CTCCTCCCTC	TTTTCTTTTG	TACTTTCCAG	120
CTGGAGCAGC	AGCAGCAGCT	GGGCCTGAAT	CAATGATTGA	CTTCCCCACG	ACCTCCCCCTT	180
CTCTTTTGCC	AATGATATCT	CTTTGCCCTT	CCAGTCATCT	TTTAATTTTA	TCGTGTATGG	240
TTTTGCTTCT	CCTTCCTCCT	CCTCCTCTCT	TCCCTCTTTC	TCCCCCTCT	CCCCCACC GA	300
CAGTCGAG						308

(2) INFORMATION FOR SEQ ID NO:1124:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 445 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1124:

GAATTCGGCC	TTCATGGCCT	ACAATTTTGC	CATGGTCTG	CTCATTTTTC	CTGCAATTCT	60
CAGCATGGAT	TTATATCGAC	GCGAGGACAG	GAGACTGGAT	ATTTTCTGCT	GTTTTACAAG	120
CCCCTGCGTC	AGCAGAGTGA	TTCAGGTTGA	ACCTCAGGCC	TACACCGACA	CACACGACAA	180
TACCCGCTAC	AGCCCCCCAC	CTCCCTACAG	CAGCCACAGC	TTTGCCCATG	AAACGCAGAT	240
TACCATGCAG	TCCACTGTCC	AGCTCCGCAC	GGAGTACGAC	CCCCACACGC	ACGTGTACTA	300
CACCACCGCT	GAGCCGCGCT	CCGAGATCTC	TGTGCAGCCC	GTCACCGTGA	CACAGGACAC	360
CCTCAGCTGC	CAGAGCCCAG	AGAGCACCAG	CTCCACAAGG	GACCTGTCTCT	CCCAGTTCTC	420
CGACTCCAGC	CTCCACTGCC	TCGAG				445

(2) INFORMATION FOR SEQ ID NO:1125:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1125:

GAATTGCCTT	CATGGCCTAC	ACCAGCCTAT	TCTCTGCTTC	TGTGAGTTTG	ACTCTTTTTT	60
TTTTTATGAG	ACAGAGTCTC	ACTCTATCTC	CCAGGCTGGA	GTGCAGTGGC	ACAACTCTCGG	120
CTCACTGCAA	CCACCACCTC	CCAGGTTCAA	GCAGTTCTCC	TGCCTCAGCC	TCCCAAGTAG	180
CTGGAAATAT	AGGTGTGCCC	CACCACGACT	GGCTAATTTT	TGTATTTTTA	GTAGAGACAG	240
GGTTTCACCA	TGTTGGCCAG	GCTGGTCTCG	AACTCCAGGC	CTCATGTAAT	CCGCCCCACT	300
TGGCCCACT	CGAG					314

(2) INFORMATION FOR SEQ ID NO:1126:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1126:

GAATTCGGCC	TTCATGGCCT	ACACGCCCCC	GCCCCGCCTG	CTGCCCAGGA	ATACTTTTCTC	60
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CAGGAAGGCT	TTCAAGCTGA	AGAAGCCCTC	CAAATACTGC	AGCTGGAAAT	GTGCTGCCCT	120
CTCCGCCATT	GCCGCGGCCC	TCCTCTTGGC	TATTTTGCTG	GCGTATTTCA	TAGCAATGCA	180
TCGTCTCGGA	CTCAATTGGC	AACTCCAGCC	TGCAGATGGG	CACACCTTTA	ACAATGGGAT	240
AAGGACCGGC	TTACCAGGAA	ACGATGATGT	GGCAACAATG	CCATCTGGAG	GCAAAGTGCC	300
CTGGTCGTTG	AAAAACAGGC	AACTCGAG				328

(2) INFORMATION FOR SEQ ID NO:1127:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1127:

GAATTCGGCC	TTCATGGCCT	AGTGAGGCTC	CATTATTTTC	ATTTTAAACA	AGTTTCAAAA	60
TGTGGCTGCT	GCTGTTGCTG	GTGGTCCGGA	GCCTGCAGAC	AGGGGGATT	GCCTGGGAAG	120
GAGAAGTAGA	AAACAACGTG	TACAGCCAGG	CTACAGGGGT	GGTCCCCCAG	CACAAGTATC	180
ACCCACAGC	AGGCAGCTAT	CAGCTTCAAT	TTGCCCTGCA	GCAACTTGAA	CAACAAAAAC	240
TTCAGTCCCG	GCAGCTCCTG	GACCAGAGTC	GAGCCCGGCA	CCAGGCAATC	TTTGGCAGCC	300
AGACACTACC	TAACCTCAAT	TTATGGACAA	TGAATAATGG	TGCAGTTGT	AGAATTTCCA	360
GTGCCACAGC	TAGTGCCAG	AAGCCAACCA	CTCTGCCACA	AAAAGTGGTA	CCACCTCCAA	420
GTTCCTGCGC	CTCCCTGGTT	CCCAAACCCC	CACCGCTCGA	G		461

(2) INFORMATION FOR SEQ ID NO:1128:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1128:

GAATTCGGCC	TTCATGGCCT	AGAATTATCA	TGGCATCTGT	AACACACATG	CCTGTGCTAT	60
ATTCTCACAA	TTTTGTTTCA	GTTGTGCATA	TTAAATATG	GAGCTCCATA	TTTTTTTCACT	120
TCCTAGTTGA	TCACAGTTGA	CTGGGTTGTC	TTTTCTGTCA	CCTGTTAGTT	TTGAAGAGAT	180
GTCTCATATG	TAGTGATGTT	AGGTATGATG	CATTAGCCCA	TAGTAAATAC	CTGGTACTGT	240
CTCTCAAAAA	AAGCCTTTAG	CTTTTTTGTA	AAGAGGACAA	CAGAAAACAC	ACCAAAAAAAG	300
CAGAAAAATA	TGTGTCGGTG	ATAGTGGGAG	AACTTATAA	ATCATGGTCA	TATGTTACCC	360
CAGAGAAGGC	TTACACAAGG	TCAGCTACAG	TTTACCCAAT	AACGCTGTGA	TTGTCTGGTT	420
CCTTGGCTTA	GAAAGCTTAG	TCTCTGCCAA	GCGGCCTCGA	G		461

(2) INFORMATION FOR SEQ ID NO:1129:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 491 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1129:

GAATTCGGCC	TTCATGGCCT	ACAAGAATGA	AGCACTGAAA	AGCGAAGAAG	GCTGCATTCC	60
GAATATCGCC	CCAGACATCT	GCATAGCATA	CAAACCTGCAC	CTAGAGTGTA	GCAGGCTCAT	120
CAACCTCGTG	GACTGGTCAG	AGGCTTTTGC	AACAGTTGTG	ACAGCTGCTG	AAAAAATGGA	180
TGCAAATTCT	GCAACCTCAG	AAGAAATGAA	TGAAATTATC	CATGCTCGGT	TTATTAGAGC	240
TGTTTCTGAA	CTAGAACTTT	TAGGATTAT	AAAACCTACC	AAACAGAAGA	CTGACCATGT	300
GGCAAGACTA	ACATGGGGAG	GCTGCTAGAA	AGCAAATAAG	CAAAGCCAGA	ACTATCACAT	360
TTAGCTTAAG	AGAAAAAGGT	GACCACTCAT	ATTACATAT	ATTAGAGGAG	CCTGTTTTGT	420
TGAGAAGATA	AATGTGTAAC	CCCCATTGAT	GTTTAACCAG	AAAAGTACAT	TGCTAACCCC	480
AAGAGCTCGA	G					491

(2) INFORMATION FOR SEQ ID NO:1130:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1130:

GAATTCGGCC	TTCATGGCCT	AGGGCAACAG	GAAACTCTTT	ATTATGGTGA	TGAGATCGAC	60
AATCTCCCCT	ACTGTTAACC	TTCGCTCCTG	CACACTTCAG	TGTCCTCACT	CTGTAGGGCT	120
CGCTGGCCTG	GGCTTCTGCG	ACCCGCGATC	GTCCAGGAGA	GGGCACTCGG	CGCCCTTCCT	180
GGGGCGCTTC	TGGGGCGGAA	TTTGCTAGGC	CGCCGTAGCA	GCGGTGCCAG	GTCAGAAGCC	240
GAGCCGGCCC	GCTTTTCGTT	CTTTAATTGG	ACTCTTGGCT	AAGACGCTAC	CGACACCCCG	300
TCAGGTGGTG	GAGGAAGAAG	GACAACAGGG	AGAGGTCGAG	GGCCGAGACG	GCCTCGAG	358

(2) INFORMATION FOR SEQ ID NO:1131:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1131:

GAATTCGGCC	TTCATGGCCT	AAACATCCTC	CTGCCACTTA	GGAGGAAACA	CCTCCCTATG	60
GTACCATTTA	TGTTTCTCAG	AACCAGCAGA	ATCAGTGCCT	AGCCTGTGCC	CAGCAAATAG	120
TTGGCACTCA	ATAAAGATT	GCAGAATTTA	ATACAGATCT	TTTCAGCTGT	TCTTAGGGCA	180
TTATAAATGG	AAATCATAAC	GTGTTCTAG	GTTATCAAAC	CATGGAGTGA	TGTGGAGCTA	240
GGATTGTGAG	TGACCTGCAG	GCCATTATCA	GTGCCTCATC	TGTGCAGACC	TCGAG	295

(2) INFORMATION FOR SEQ ID NO:1132:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 500 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1132:

GAATTCGGCC	TTCATGGCCT	AATGAAAAAC	AAAACAAAGA	TGATGAAGCA	GAGTGGCAAG	60
AATTACAACA	AAGCATACAG	CGAAAAGAGA	GAGCTCTATT	GGAAACCAAA	TCAAAAATAA	120
CACATCCTGT	GTATAGCCTT	TACTTTCTCTG	AGGTAGAGCT	GAAGTTTCCT	GCACCAGGCA	180
AGCCTGGAAA	TTATCAGTAT	ACTGTGTTTC	TGAGATCAGA	CTCCTATATG	GGTTTGGATC	240
AGATTAAACC	ATTGAAGTTG	GAAGTTCATG	AGGCTAAGCC	TGTGCCAGAA	AATCACCAC	300
AGTGGGATAC	AGCAATAGAG	GGGGATGAAG	ACCAGGAGGA	CAGTGAGGGC	TTGAAGATA	360
GCTTTGAGGA	AGAAGAGGAG	GAAGAAGAAG	ATGATGACTA	AGCAGTACTC	TGAATGGACC	420
ACAGTGTTTG	CACATATTTG	CAATTTTTTG	CTGTTTTGGA	AGTGTATCAT	AAACCAGAAA	480
CAGTACATAA	CAATCTCGAG					500

(2) INFORMATION FOR SEQ ID NO:1133:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1133:

GAATTCGGCC	TTCATGGCCT	AGATTATATT	GCATATATTT	TATAGAACAA	GGCAAGCAAA	60
ATATTTTAGT	ATTTGCAAAT	CATGTTACTA	TAATTATTAG	ATCATAGTAC	CATTTATATA	120
AAGTATTAGG	TGGTGCAAAA	AGTAATTGCG	GTTTTGGACC	GTGAATTTTA	AATCATTATA	180
AGTCGGCTCA	GACACGTCTT	TATTAATCAG	AGCAGGAAGC	ATTATAATCA	ACACATTTTT	240
GCCAATGAGA	AATAAGTTTG	TTCATTCCTG	TAGCTTAAAA	ATTCATGCTT	TGGGATTTGG	300
AAAGCATTTT	CTGCTTTCCA	AAAACCTGCT	GGTTTTGGAA	GCATTTTCCT	TTCAAATAGT	360
TGTCGAGATG	CTTGAAGAAG	TGGTGGTTGA	CAAGAGGTCA	GGTGAATACG	GCGGCTCGAG	420

(2) INFORMATION FOR SEQ ID NO:1134:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1134:

GAATTCGGCC	TTCATGGCCT	AACTAGTCCT	GACTGCTTAG	ACAAAGTCAT	AGATTATGTT	60
CCAGGCATT	TCCNAGAAAA	CAGTTTTACA	ATCCAATACA	TTCTGGACAC	CAGTGATAAG	120
CTGAGTACTG	AGCTCTTTCA	GGACAAAAGT	GAAGAGGCTT	CCCTTGACCT	CGTGTGTTGAG	180
CTGGTGAACC	AGTTGCAGTA	CCACACTCAC	CAAGAGAACG	GAATTGAAAT	TTGCATGGAC	240
TTTCTGCAAG	GCACTTGTAT	TTATGGCAGG	GATTGTTTGA	AGCACACAC	TGTCTTGCCA	300
TATCATTGGC	AGATCAAAAAG	AACAAC TAGC	TCGAG			335

(2) INFORMATION FOR SEQ ID NO:1135:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1135:

GAATTCGGCC	TTCATGGCCT	AGCAATTTTT	CCCTCAGGGG	GGCTCCCATC	TTCTTACACA	60
GAGAGGCAGC	TGAGGCAGGA	CAGTGGGGCT	AACTGTAGAC	CAGGCGAGGG	CACGGGCTGC	120
TGGGGTGGCC	CTGCTTCCCC	AGTGACATA	TTGTATCTGT	GTAACATTTT	GTATATTCCA	180
GGGGTAGGGC	CGCCCCCTGT	ATCATACCTA	GCAGAGGTTG	GAGCTGGCAC	ATGGGGAGGA	240
GGTTCTAATA	ATTATTTGGG	GCTGGGAAAC	TTATTTATTG	ATAGCATAGG	ACAGAGCCCA	300
CTCTCGAG						308

(2) INFORMATION FOR SEQ ID NO:1136:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1136:

GAATTCGGCC	TTCATGGCCT	ACCGAGGCTT	CAGCGGGTGC	CGCCCGCCTA	GAGGGAGTGG	60
AGCGGCTAGA	CAGCTTTAGG	AACTGAAAGG	TTCACGAGGC	TGTAACGAAG	AGTCGAGTTG	120
CTCCAGAGAG	CCTACGACTA	GATTTGATC	TTTACGTCCT	GCGCGGAGGC	TGCTACACAC	180
ATGCAGAAGT	CATGCTGGTG	GCCTGGACAG	TGAAGGGAGA	GAAGTGGATT	TGGGAGACAT	240
TTAGGAGGAA	CAGTAAGAGG	ACCTTGTGCA	TGAATAATTT	GTTTCCACAC	TACAGAGTGG	300
GTAATAAGCA	GATTAGTAA	AACAATTCTG	CTTCACTTCA	ATAACAGCCT	CCTCCAATC	360
ATTTTTTCTC	AACAACTTA	TTTTCCAGCA	GAAGAATCCC	AGACTTCTTA	GAGAACCCAG	420
TGACTTTTGT	CACCTTAAAT	CTGTGAAATC	CTCATGTTT	CTTCTGCCGT	ATCCATAGTT	480
CAAACAAGAA	CCTCGAG					497

(2) INFORMATION FOR SEQ ID NO:1137:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1137:

GAATTCGGCC	TTCATGGCCT	ACAATTGTAT	GCTGAAAAAT	GGGAGTAACT	ACATGAAATG	60
AGCAAATGCC	TAGAAACAAA	AAACCTACGA	AGATTGTATC	ATGAAGAAAT	AGAAAAATATG	120
AATAGACGTG	TGTATTAGTC	TGTTCTCACA	CTGCTAATAA	AGACGTACCC	AAGACTGGGT	180
AATTTTTTTG	TTTTTAAGAA	AAAAGAGGTT	TAATGGACTC	ACAGTTCCAC	GTGGATGGGG	240
AGGCCTTATA	ATCATGGCAG	AAGGCAAACA	GCACGTCTTA	CATGGCAGCA	GGCAAGAGAG	300
AATACTCGAG						310

(2) INFORMATION FOR SEQ ID NO:1138:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 466 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1138:

GAATTCGGCC	TTCATGGCCT	AAGCAAATCA	CTTTTCCCGA	TTGAAAATAC	ACTTTACAAA	60
AGTGTTTTCA	GCTTTTGCAT	TGGTTAGGAC	TATACGGTAT	CTTTACAGAC	GGCTACAGCG	120
GATGTTAGGT	TAAAGAAGAG	GCTCTGAGAA	TGAAGACCTC	TGGGCAGAGA	GTGAAGGAAC	180
TGTGGCATGC	CTTGGTGCCT	AGGACCGAGC	AGCTACCTCA	GCAAAATCTT	GGCCAATATT	240
CTTGTTCTTG	GCTGTTATCC	TTGGTGGTCC	TTACCTCATT	TGGAACTAT	TGTCTACTCA	300
CAGTGATGAA	GTAACAGACA	GCATCAACTG	GGCAAGTGGT	GAGGATGACC	ATGTAGTTGC	360
CAGAGCAGAA	TATGATTTTG	CTGCCGTATC	TGAAGAAGAA	ATTTCTTTCC	GGGCTGGTGA	420
TATGCTGAAC	TTAGCTCTCA	AAGAACAACA	ACCCAAAGCA	CTCGAG		466

(2) INFORMATION FOR SEQ ID NO:1139:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 473 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1139:

GAATTCGGCC	TTCATGGCCT	AATTTTTTTT	AATAGAGACG	AGGTCTTGCT	ATGTTGCCCA	60
GGCTGGTCCC	AAACTCCTGG	CCTCAAGCAG	TCCTTCCACC	TTGGCCTCCC	AAAGTGCTGG	120
GATTATCAAT	ATGAGCCACC	ATGCCAGATT	TGTTCAATTT	TAAATATTTT	TATCTCTTCA	180
AGTCATCTTT	TGATCTTTTA	AAAAGCACCT	TCAAACAGCT	GCACCTTCCA	TTTGCACTAG	240
GAAATGAAGG	TAGTGATGGG	ATTGGCAATG	TTCTGGCAG	ATGTTTCAGC	CCAAAAGCTC	300
TTCTACAGAC	CGGTTTAGAG	CTGGTGCCCT	ATGAGAATAT	TAGGGAGCTT	TTATTTTAAA	360
TTGAACTTTA	CCCTTGTTCA	TGCAAGGCAT	TCCTCCTGAA	TGCATCCATG	AATTGTGTTA	420
CTTTTGCGTC	AAACATATGA	GCCATTGTCA	TGCTCAGCAT	GTGCCACCTC	GAG	473

(2) INFORMATION FOR SEQ ID NO:1140:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1140:

GAATTCGGCC	TTCATGGCCT	AAATGAAGAT	CAGCTTCGTG	CAAAGGGTTA	TGACAAAACA	60
CCAGACTTCA	TTTTACAAGT	ACCAGTTGCT	GTAGAAGGGC	ACATAATTCA	CTGGATTGAA	120
AGCAAAGCCT	CATTGTTGTA	TGAATGTAGC	CACCACGCCT	ACCTGCATGA	CCAGTTCTGG	180
AGCTACTGGA	ATAGGGTCCC	AATATAACAG	ACAAATGGTG	AAACAGAGGG	ATACTCACTA	240
GGAAACAGAT	TTGGGCCAGG	CTTAGTCATC	TATTGGTATG	GATTTATCCA	GGAGCTGGAC	300
TGCAACCGGG	AAAGGGGCAT	CCTGCTCAAA	GCCTGTTTCC	CCACGTCCTC	GAG	353

(2) INFORMATION FOR SEQ ID NO:1141:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 571 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1141:

GAATTCGGCC	TTCATGGNCT	ACCAATTTCT	CATGGTTCCC	TAGGACCTTC	CTAGCTCCCC	60
AGGGAAAGCC	TNTGCTGTTT	CCCTTGNTTT	CTTTTCACTT	GACAAACTCC	TACTCAAAC	120
TCAAACCCCA	ACTCAGGAAA	CATCTCCCCT	AGGAAGCTCT	CCTTAACCTT	TTCTGCTGGG	180
TCCCGCTGCC	TCTGCTAAAG	TCCACGTGAG	GGACTGCCAA	GANGTTTGCT	CTGTCTCACA	240
GATTGAGTGC	CAAGAGGGCA	GGGACNTCTC	TTTGAGAGAG	TTTAACCTCT	GTAACATAAG	300
CAAGTTTACT	TAATCACTGA	TTAACCACT	TTGTGCCTCA	GTTTCCCCAT	TTGTTAAGCA	360
TGAATTATCA	CTGTCACTAT	CTGCCAGGAC	TGTGAAGGGG	GTGTAAATGC	ATGAACATCA	420
TAAAGTGCTT	AGAAGCATGC	CTGGTACAAA	GAAAGTTCTC	TAGGNAAACA	ANAAACAAAC	480
AAAAAAAAAC	AAAACAGAAA	TGTATCTAGA	GGTCAGATAC	CAGTCCCACA	TCGAGTGCAG	540
ATAATGGGCT	AAGTAACCAA	TGAGTCTCGA	G			571

(2) INFORMATION FOR SEQ ID NO:1142:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1142:

GAATTCGGCC	TTQATGGCCT	AGTAAGGAGA	GCCTCTATCA	AAGGGTGGCC	TGGAGCAGAA	60
TATCAGGCTA	TGTGTATTAG	TTCGTTTTCA	CACGCTATGA	AGAACTACCT	GAGACTGGGT	120
AATTTATAAA	GAAAAGAGGT	TTGATTAAC	CAGAGTTCCC	ATGA ₂ CTGGG	AGGCCTCAGG	180
AAACTTACAA	TCATGGTGGA	AGGCATGATA	GCAGGAGGGG	TGGAAAGAGG	GGAGTGTAC	240
ACTTTAAAC	CATCAGATCT	TGTGAGAACT	CACTCACTAT	CATGAGAATA	GCAAGGGAGA	300
AATCCACCAA	CTCGAG					316

(2) INFORMATION FOR SEQ ID NO:1143:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 442 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1143:

GAATTCGGCC	TTCATGGCCT	ACTCAAGCGT	TTCACTGTGC	GATATCTGCG	ACTGCTCGCA	60
GTCTTGCTTT	CCTTGGTTCT	CCCCTGGGGG	CTCAGGATTA	CGAGGCCTGA	AGCTCCTAGA	120
GGCTAAATGC	CAGGGGGATG	GAGTGAGCTA	CGAGGAAACC	ACTATTCCTC	GACCCAGCGC	180
CTACCACAAT	CTGTTTGGAT	TACCACTGAT	TAATCGTCNA	GATGCTGAGG	TGTTACTGAC	240
GAGTCGTGAG	CTTGACAGCC	TGGCCTTGAA	CCAGTCCACG	GGGCTGCCTA	CCCTTACTCT	300
ACCCCGAGGA	ACGACCTGCT	TACCCCTGTC	CTTACTCCCT	TACCTGGAAC	AGTTCCGGCG	360
GATTGTATTG	TGGTTGGGGG	ATGACCTTCG	GTCTGGGAA	GCCGCCAAGT	TGTTTGACACG	420
AAAACCTGAGC	CCCAAACCTG	AG				442

(2) INFORMATION FOR SEQ ID NO:1144:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1144:

```
GAATTCGGCC TTCATGGCCT ACCATCTACA GCTGTATTCT TGTTCCCTTG ATGGCACAAAT    60
TAAACTGTGG GACTATATAG ATGGCATCTT AATAAAGACT TTCATAGTTG GATGTAAACT    120
TCATGCCCTC TTTACTCTTG CCAAGCTGA GGATTCTGTC TTTGTTATAG TGAATAAAGA    180
AAAACCAGAT ATATTTGAGC TGGTTTCAGT GAAACTGCCA AAATCCTCAA GCCAGGAAGT    240
AGAAGCCAAG GAGCTGTCCT TTGTTTGGGA TTACATAAAC CAGTCACCCA AGTGCATTGC    300
CTTTGGAAAC GAGGGAGTAT ATGTTGCGCA GTACTCGAG    339
```

(2) INFORMATION FOR SEQ ID NO:1145:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1145:

```
GAATTCGGCC TTCATGGCCT AGGCCAGGGG ACCCGGCCTC AGGTCTGTGG AGGTGCTTCA    60
ACAGCACGAT GCTCATTCTC TGCCGTAAGT GTCTCCATAT ACTTTCTCAT CTTCTCCACC    120
ATCCAGGAGG GTAGGACAAA GGATTTCAAT TCCTCTAGCT TCAGATCCAG GCATCCTCTG    180
TAATCATCAC TGGCCGCAAG GTCCCGGATG TCCTCCTCGA TGAGGAGGTA GGCCATCTTG    240
CCCCCTGTTG CCCGCAATGT ATGCTGCTCA GCCAGCCAGT GCTTATCCTG GGGGTGAGCT    300
GCATACTTAA AGAGGTGTGG GTGCTTGATG TAGATTCTTC CTCTGGTGCC CCCCATCCCC    360
AGGGCTTTGT TGGCTCGAG    379
```

(2) INFORMATION FOR SEQ ID NO:1146:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1146:

```
GAATTCGGCC TTCATGGCCT AGGAAAGCTG GGGGCAAGGA AGAGCCTTGA ATCTTGAGGT    60
GGGACGTTGA CTCTAAGATG TCCTTGAGCA GTGGAGCCTC CGGAGGGAAA GGAGTGGATG    120
CAAACCCGGT TGAGACATAC GACAGTGGGG ATGAATGGGA CATTGGAGTA GGGAAATCTCA    180
TCATTGACCT GGACGCCGAT CTGGAAAAGG ACCAGCAGAA ACTGGAAATG TCAGGCTCAA    240
AGGAGGTGGG GATACCGGCT CCCAATGCTG TGGCCACACT ACCAGACAAC ATCAAGTTTG    300
TGACCCCACT GCCAGGTCCT CAAGGAAAGG AAGGGCTCGA G    341
```

(2) INFORMATION FOR SEQ ID NO:1147:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1147:

```
GAATTCGGCC TTCATGGCCT AGGGGGGGGCC ATCTTTAATT CTGTAAGTTC ATGGTAAAGG      60
TATCTCCCCC CACACTGGGG CAGGCGGGCGG AATAAGCTCC AGCGTTCATG CGCCACTCAC      120
AGGACTGCTT ACCCCCACTG CACTTACAAT GCAGTCACAG AGTTACGGCA TGTTACCCGG      180
TGTCCATGAC AAGCAACACC AAGTATAAAT AACAGAACTA CAGCAGAGCA AACTAAGATA      240
AATATGTTTT TGCATCGTCC TCCACATAGT TTCCTTTTAA AAAGAAGAGT CACATCCAGG      300
GGTCTATCCC TCGAG                                     315
```

(2) INFORMATION FOR SEQ ID NO:1148:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 473 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1148:

```
GAATTCGGCC TTCATGGCCT AGCTCTTTGG GGAGCTGTTT CAGAGGGAAA GTGGATGAAG      60
GCTGAAGTGG AGGCCAAAT AGGTGCTCTA GTACCCTCTC TTGGATCTCT TTCAGCTTTT      120
ACCTGTTTTA TATGCTGGGA TTTTATATAC AACTATTTGC AGAACTCAAC TGCTAAAGTA      180
AAACGGTGGG GAGGACTATT GGATTGGGAG ATCTCTAAAA TCCCATTGGG ATTGATGAAA      240
AAGAGAACTA TCAGCAGAAA AGAGGAAGGG AACAAATGAG TTGTTAGTAC CTTAGTTCCT      300
AATTTATGTT CCTTTATTGT AGATTCTTTT CTTGGCCACT ACACTCCTTA GAAATATAAT      360
TCAACACTGT TTCTTTTACC ATTTTGTATG ATATGCAAAG TCCAGCTTTA CTCAGCCACA      420
TTTTGTCCAC TGGCTTATAT TTAATTTATA TTTTAGGATA CAGATAACTC GAG          473
```

(2) INFORMATION FOR SEQ ID NO:1149:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1149:

```
GAATTCGGTC TTCATGGCCT ACTCTGGGTT GCCTGTGGTC ACTTCTGGTT GCCTAGGACT      60
AGAAGGCTCA GATTTTCAGT GTCGGGACAC TCCCATTCCT CATCAAAGAA GATCAATTGA      120
ATGCTGCACA GAAAGGAACG AATGTAATAA AGACCTACAC CCTACACTGC CTCCATTGAA      180
AAACAGAGAT TTTGTTGATG GACCTATACA CCACAGGGCT TTACTTATAT CTGTGACTGT      240
CTGTAGTTTG CTCTTGGTCC TTATCATATT ATTTTGTTAC TTCCGGTATA AAAGACAAGA      300
AACCAGACAA CTCGAG                                     316
```

(2) INFORMATION FOR SEQ ID NO:1150:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1150:

GCCACGAAAG GTACCCCTGA ATTCTGGACT CATAAAATCT CTTAGATAAT ACATATTTGT	60
TGTTTAAACC CACTCAGTTT TGCATTGGTT ACACAGCAAT AGAAAATAAA GGAGGCAGAT	120
GAAATTGATG GAGAACAATT GCAACGAAAA CAGAATACAC AATGCACGAG CCTGTGTCAG	180
GAATGACAGT GCATTCCACG GAAGAGTTGC ACAGAGAGAG ACGCCGCTCG AG	232

(2) INFORMATION FOR SEQ ID NO:1151:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1151:

GAATTCGGCC TTCATGGCCT AGCCTTTAAC ACTTGATATA AAATCCAAGC ATTTTTCAGA	60
CCTCAACCCA GAATAGTAGA TACCTGAAAT TAAGATTCCT ATTGGTGAGA AACAAGATCT	120
GTATATTTC CTATCCCTAT CCCCAAATGC CAGTGGGTCA TTTTCCCCAT GCCTAGCTCC	180
ATTACAGCT AATATGTGGA TTGAGGCTTT ATTCCAAAAC ATTTAGGTTC TATATCTTC	240
CCTAGCCCTG ATTAGCAGTG CTCATCTTTG AAGATCATTG TGACTTTTCA GACTATTGTA	300
GTGATGGCTC AACCTGACCC CTTCTCCTCC TTTCAGGATT TGGCAGAGAG AACGGCCGCT	360
TCTCGAG	367

(2) INFORMATION FOR SEQ ID NO:1152:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1152:

GAATTCGGCC TTCATGGACA GCACAGTGGC CAAAGAAGGC ACTAATGTAC CATTAGTTGC	60
TGCTGGTCCT TGTGATGATG AAGGCATTGT GACTAGCACA GGCGCNAAAG AGGAAGACGA	120
GGAAGGGGAG GATGTTGTGA CTAGTACTGG AAGAGGAAAT GAAATTGGGC ATGCTTCAAC	180
TTGTACAGGG TTAGGAGAAG AAAGTGAAGG GGTCTTGATT TGTGAAAGTG CAGAAGGGGA	240
CAGTCAGATT GGTACTGTGG TAGAGCATGT GGAAGCTGAG GCTGGAGCTG CCATCATGAA	300
TGCAAATGAA AATAATGTTG ACAGCATGAG TGGCACAGAG AAAGGAAGTA AAGACACAGA	360
TATCTGCTCC AGTGCNAAAG GGAGTCTCGA G	391

(2) INFORMATION FOR SEQ ID NO:1153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 459 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1153:

GAATTCGGCC	AAAGAGGCCT	AGCACTTGTC	TCATTTTAAT	GTAAAGATTT	GCTTCCATTT	60
TCCTACAGGC	AGTCTCTCTC	TTCCTCACAG	TCCCCTGTG	CAGGTGCTAT	TGTTACTCTT	120
ACGAATATTT	TCAGTAATGT	TATTTTCTTC	TAAGTGAAAT	TTCTAGCCTG	CACTTTGATG	180
TCATGTGTTT	CCTTTGTCTT	TCAAACCTCA	AGGTCCCCT	GTGGNCCTCT	CCCTTACCCT	240
GGGAAGGCCT	CTTGGAGACC	TTACCCCTTG	CTGTTTGGAC	TTTGTATACT	TAAATAAATT	300
TAATACCCT	TAATTACTTA	AAAAAAAAAA	AAAAAGCTT	TATGATTTTC	ATACTTATT	360
GCTGATTTTA	ATGGATGTG	AATTCAGTC	CTGTAGTTT	ATTTTATGTT	TAGATAGGGC	420
TGGGCAAGGA	AAAAGAAAAT	AAAGACAACC	ATACTCGAG			459

(2) INFORMATION FOR SEQ ID NO:1154:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1154:

GAATTCGGCC	AAAGAGGCCT	ACTCCTTCAG	ACTACAAGCT	CCACAGAGCC	GCGGGAGGAC	60
GGTTGCCTGG	TATTATTAGC	AAGCAGCAAA	TATGGCGGTG	GCGCGCGTGG	ACGCGGCTTT	120
GCCTCCCGGA	GAAGGATCAG	TGGTCAATTG	GTCAAGACAG	GGACTACAGA	AATTAGGTCC	180
AAATTTACCC	TGTGAAGCTG	ATATTCACAC	TTTGATTCTG	GATAAAAATC	AGATTATTAA	240
ATTGAAAAT	CTGGAGAAAT	GCAAACGATT	AATACAGTTA	TCAGTAGCTA	ATAATCGGCT	300
GGTTCGGATG	ATGGGTGTGG	CCAAGCTGAC	GTTGCTTCGT	GTATTAAATT	TGCCTCATAA	360
TAGCATTGGC	TGTGTGGAAG	GGCTCTCGAG				390

(2) INFORMATION FOR SEQ ID NO:1155:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 534 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1155:

GAATTCGGCC	AAAGAGGCCT	ACGAATGTGG	CCGGGTGGGA	CCCGGACATA	CGAGAGATTG	60
TCCTCATCGT	GGCCATGATG	ACATTGTCAA	CTTCGAGAGG	CAGGAGCAGG	AGGGAGAGCA	120
GTACCGTTCC	CAGAGGGACC	CACTGGAGGG	CAAGCGGGAC	CGGAGCAAGG	CCAGGTCTCC	180
GTACTCGCCA	GCCGAGGAGG	ATGCCTTGTT	TATGGATTTA	CCCACTGGCC	CAAGAGGCCA	240
GCAGGCACAG	CCCCAACGGG	CAGAGAAGAA	TGGAATGCTG	CCTGCCTCAT	ATGGCCCAGG	300
AGAACAGAAT	GGGACTGGTG	GGTACCAGCG	GGCCTTTCCT	CCCAGGACCA	ACCCTGAAAA	360
ACACAGCCAA	AGGAAGAGCA	ATCTGGCCCA	GGTGGAGCAC	TGGGCAAGGG	CCCAGAAAGG	420
GGATAGCAGG	AGTCTTCCCT	TGGACCAGAC	GCTTCCTCGC	CAGGGTCCTG	GCCAAATCCCT	480
GTCCTTCCCA	GAAAACCTACC	AGACTCTTCC	CAAGAGCACC	CGAAACGCCT	CGAG	534

(2) INFORMATION FOR SEQ ID NO:1156:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1156:

GAATTCGGCC	AAAGAGGCCT	AATGGATCTA	GTCACCTTCA	GATTTCAATT	TGAGGTTAAG	60
TATATAAAGC	ACATCCCAAT	TTTATATGCT	GCCTTGAGAA	AATTACAGGA	TGCACGGCAA	120
TTTGTAGGAA	TTTCAAATGG	GATCATTTAA	ACATTGAAA	AATTATTTTA	AAAACCATCT	180
AGTTTGCTTT	TGGATTTTAG	ACATTAAAGC	CTATGTTGTC	TGTTAACAG	GGGTGGAATG	240
TATAACCATC	AGATTGAGCA	TGTGATTTCA	CCTTTGAATC	TGAGTATTTC	TTCCCTATCT	300
TCTTTGAGTC	ATTTTGGAG	CAGACTGTCA	CCAGTATTGA	TAATAAGCA	TTAAAGGGAA	360
AAGTTGCATT	GCAACTATGC	ATTGGTTTCC	TGGAAGAAGT	TTCTTTTGT	TTTAGTGAAT	420
GAAGAGGCTT	GATGGGATCA	CTTACTGTAA	CTCCTTCTAC	ATAAGGACCC	CTTCTGCAAG	480
CAGAACACAA	AAGAACACGC	TCGAG				505

(2) INFORMATION FOR SEQ ID NO:1157:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 441 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1157:

GAATTCGGCC	AAAGAGGCCT	ATGTTATTGG	GAAGGACCCA	GAGAACAAAA	AGTTGAATAC	60
GGAAAAGAAA	ATAGGATTTG	CAAGAAGCAC	NTTTTTTTTT	TTTTTTTTTT	TTTNGAGACA	120
AANTCTCGNT	TTGCANTCCA	GCCTGGGTGA	CAAGAGCAAA	ACCTNGTNTC	CAAGNAAAAA	180
AAAATACAGT	TTTGGTGATA	ATACAGTTTG	AAAGTAATTA	GCATGTGGAT	AGTCATAGAA	240
ACCACAGGCA	TCAATGAAAC	TGGCTAGGAG	AAAGGACACC	AAGAGGAAAT	GGCCAGAGGT	300
AACAGGAAAA	TCAGGGGAGT	GTGGTTCACA	GAAGCCTGGG	AAGTGCTATT	TCAAGAAGAG	360
AGTGGGTGGA	AATTGTAAAG	TGTCTAATGC	TGCTCAGAAG	CCAAGCAAGA	TAAAGACAGA	420
AGAATCTAGT	GGGAACTCGA	G				441

(2) INFORMATION FOR SEQ ID NO:1158:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1158:

GAATTCGGCC	AAAGAGGCCT	AGCAGAACCC	GACCAGGGGA	GCCTTGCCTG	TGTGTTTCAG	60
GTGCTCTGCG	ACCACTTCTA	TAAAACCTAA	AAAAGGAGAT	TGCTCTGATT	GCAACAGGTG	120
TGGGGGACCA	GTATCCCATC	CCATTGGCCC	TGCCCTCCCA	CCTGTAAGGC	AGAATATGGT	180
TGGGAAATCA	TTGCCATATG	CAGAAGGGGT	CACTGAGGGG	TTTTAAACAA	CAGTGACATG	240
CTCAGTTCTC	TGGGTTGAGG	CATCATCACC	CTGGTGGCCA	TGTGGAGGAT	GGAAGTAAAA	300
AGGCATTCTC	TTAGAAGACC	TCTGCAGGAG	TCCAAGGAAG	AAACAGGCAA	ATCTGCAGGA	360
GGCAGGCATA	TCCAAGCTCG	AG				382

(2) INFORMATION FOR SEQ ID NO:1159:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1159:

```

GAATTCGGCC AAAGAGGCCT AGCCTCGGTG ATTCCAGTG GAAGAATGTA GGTCCCAATA      60
CCACAAGCAC AGTCATTAGC ACAGATGCTT TTAGGCCAGG AGTTCGATAT GACTTCAGAA      120
TTTATGGGTT ATCTACAAA AGGATTGCTT GTTTATTAGA GAAAAAAAC AGGATACTCT      180
CAGGAAGTTG CTCCTTCAGA CAACCCTCAC GTGCTGGTGG ATACATTGAC ATCCCACTCC      240
TTCACCTCTGA GTTGGAAGA TTAAGTCTACT GAATCTCAAC CTGGTTTAT ACAAGGGTAC      300
CATGTCTATC TGAAATCCAA GCGGAGGCAG TGCCACACCG ATCTCGAG      348

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(2) INFORMATION FOR SEQ ID NO:1160:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1160:

```

GAATTCGGCC AAAGAGGCCT AGAAAACTG AAAAAATAAG AACTTTAGA GAAAAAGAGG      60
AATCAGTGCA GGCTAGGGGA ATGAAGTTGG TAATCCAGTA GTCTTTCCCT GCCAGCATTT      120
TGATTGATAA GCTAAGTGTC TGCTTTTCT CATCCCTTAT TTTTGGCAG GAAACAGTA      180
TTTTGATACT TGAATGCCTT CTTTCTATCT TAAGGGAGAA GCCTTCTTAA ACTTCAAGTG      240
TGAAGTAGAT CCTTTAGGTA TAGGATGAAA AATTAAGTGG GACTATTGT GAATTACTAA      300
ATCGCAACTC GAG      313

```

(2) INFORMATION FOR SEQ ID NO:1161:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1161:

```

GAATTCGGCC AAAGAGGCCT AGGAGCCTAG AAAAGAAGAA AGGTCTATTT TTATAAAAC      60
TGATGAAATA CTTGTGGCAG GGAGTCCTCG AG      92

```

(2) INFORMATION FOR SEQ ID NO:1162:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1162:

GAATTCGGCA AAAGAGGCCT AGTGCATAAG GAATCACTGT GTACAACTG GCCAAGTGCT	60
TCTGTAGATA ACGTCAGTGG AGTAAATATT CGACAGGCCA TAACTTGAGT CTATTGCCTT	120
GCCTTTATTA CATGTACATT TTGAATTCTG TGACCAGTGA TTTGGGTTT ATTTTGTATT	180
TGCAGGGTTT GTCATTAATA ATTAATGCCC CTCTCTTACA GAACACTCCT ATTTGTACCT	240
CAACAAATGC AAATTTTCCC CGTTTGCCCT ACGCCCTTT TGATACACCA CTCGAG	296

(2) INFORMATION FOR SEQ ID NO:1163:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1163:

GAATTCGGCC AAAGAGGCCT ATTAAAAATA AGTGTCTAAT ACTGTGTATT CATATAGCCT	60
TTATATCTCA ATACGTGCTT ATCTGTTGGT ATACCTTAGA GAAATAACCC ACCATCAATG	120
AGAAGAAAGGA AAGGCAGGAG GAAAAAAGTT TATATAACAC TTTAAATGG TAGATTATTT	180
GTGGCCATTT GAATTTACTG ATTTGAAGTT CTAAAGATG CTGAGCCATG CCTTACATAG	240
TTATTTTAGA ATCTAAAGTT GTTCTGTATT TGCATAACGT TTCTGTTCTT TTTCTCTTT	300
AAACCCTGAA AGTGATAGAT GGGAAGGAGG AACCAGATAT TTGGCATGGT CTGACAAAAA	360
TTAACTTGTC AACTCGAG	378

(2) INFORMATION FOR SEQ ID NO:1164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1164:

GAATTCGGCC AAAGAGGCCT ACTCCAGGGT ACTTTTCCCC TAGGCCTGAC CTTTGTAGT	60
CTTTTGTGCC ANACATATTT AAGACCAGAG GAAAAAAGCA ATTGCTTTAG TTTCTATGTT	120
TGGGTAACAA AATCTACCCA CAGACAAGAG AATAACAAAA ACCAAACAGT ACAGTGGGAA	180
ATATAACAGA AAGGAAAAAA AAGATCATCA CATTAAATGT AAATGAGGTA AATTTTATA	240
ATAAAGAATC TTTTATGAAG AATGTCTCAA ACCAAATATT GTACTTTCCA ATTTCTTGGG	300
CACTGGGGAT GCTGAAGTGT AGTTAGATGA GTATATAACC CTATAGGGCT CTCGAG	356

(2) INFORMATION FOR SEQ ID NO:1165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1165:

GAATTCGGCC AAAGAGGCCT AGTCTTCTGC CCCCTATGA AGTTTGAGTT TCAGCCCCAC	60
ATGGGGGATA TGGCTTCCCA GCTCTGTGCC CAGCAGCCTG TCCAGAGTGA GCTGGTACAG	120
AGATGCCAAC AACTGCAGTC TCGCTTATCC ACTCTAAAGA TTGAAAACGA AGAGGTAAAG	180
AAGACAATGG AGGCCACCCT GCAAACCATC CAGGACATTG TGACTGTCGA GGACTTTGAT	240
GTGTCTGACT GCTTCCAGTA CAGCAACTCC ATGGAGTCCG TCAAGTCCAC GGTCTCTGAA	300
ACCTTCATGA GCAAGCCCAG CATTGCTAAG AGGAGAGCCA ACCAGCAAAT CCTCGAG	357

(2) INFORMATION FOR SEQ ID NO:1166:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1166:

GAATTCGGCC TTCATGGCCT AGACAGGCGG ACCCAGAGAG ACTTGCAGTA CGTGGAGAAG	60
ATGGAGAACC AAATGAAAGG ACTGGAGTCC AAGTTCAAAC AGGTGGAGGA GAGTCATAAG	120
CAACACCTGG CCAGGCAGTT TAAGGGCTAA CTAAAAGAG TTTTTCAT GCTGCAGTGA	180
CTGAAGAAGC AGTCCACTCC CATGTAACCA TGAAAGAGAG CCAGAGAGCT TTTTGCACCA	240
TGCATTTTTA CTATTATTTT CCAATACTTA GCACCATTTC ACTAAGGAAC CTTGAATACA	300
ACGAGGATCC TCCTTTGCAT GCGACTGTAG CTGCATTCA TGAATAGTTT GAACCCTTGT	360
CAATGCAATC TCGAG	375

(2) INFORMATION FOR SEQ ID NO:1167:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1167:

GGCTTATTGA TGA CTCTTAT TTTAATTATG TTTTAGCAA TGATAAGTTA CAATATAATA	60
GCTGGAGATA CTTTGAGCAA AGTTTTTCAA AGAATCCCAG GAGTTGATCC TGAAAACGTG	120
TTTATTGGTC GCCACTTCAT TATTGGACTT TCCACAGTTA CCTTTACTCT GCCTTTATCC	180
TTGTACCGAA ATATAGCAAA GCTTGGAAG GTCTCCCTCA TCTCTACAGG TTTAACAAC	240
CTGATTCTTG GAATTGTAAT GGCAAGGGCA ATTTCACTGG GTCCACACAT ACCAAAAACA	300
GAAGACGCTT GGGTATTTGC AAAGCCCAAT GCCATTCAAG CGGTCGGGGT TATGTCITTT	360
GGGGACGTTT TCGAG	375

(2) INFORMATION FOR SEQ ID NO:1168:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 552 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1168:

GAATTCGGCC TTCATGTCTC TGCAATCTGA AAATAGTGCC TTTTACCAAG AAGAGGACAG	60
AATTGGCGTT TGGAAGGCTG AGGGTCATGG TGTAAGGGCT TTTGAGTCAA AATCTTGGTG	120
TCAAGCAGAT GAGGCTGCAA CACAGACCTG TGACCAAACT TGTGTGGAGC GTGTGGTGGA	180
CACGCAGGGG ACTGTGCAGA GGACAGATGG CCTAAAGCTT AGCATGGCAC AAGGAGTGCC	240
CCCCGATGGC AAGTCTCCCA GTCAACTCCA GATCTCTTCA CAGTAACTGT GTTTCCTCCG	300
CATTTATTTT CAACCTGCAC AGAGGAAGAA GAGAGGGAAA CAAGCCCAGG TGACAAAACA	360
GAGGGTGAAA TATGTGTGAA GAGTTCAGTC AGTGTGTCAC GAGACCAGCT GAGTGACCCT	420
CAAAGCTTAG AAGGTAGTGA AAAAGAATCA CTGCAAGCAA AGTATAGTGA GACAAGTGAA	480
GATGACATAG AGACTGTCAA GTCAGATTCT AAAACAACCT ATGAGTGGGA AACAGGNACA	540
CAAAAACCTCG AG	552

(2) INFORMATION FOR SEQ ID NO:1169:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 566 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1169:

GAATTCGGCC TTCATGGCCT AGAGCGGAGT AAATCTCCA CAAGCTGGGA ACAAACTCG	60
TCCCAACTCC CACCCACCGG CGTTTCTCCA GCTCGATCTG GAGGCTGCTT CGCCAGTGTG	120
GGACGCAGCT GACGCCCGCT TATTAGCTCT CGTGCCTCG CCCCGGCTCA GAAGCTCCGT	180
GGCGGCGGCG ACCGTGACGA GAAGCCCACG GCCAGCTCAG TTTTCTTCTA CTTTGGGAGA	240
GAGAGAAAGT CAGATGCCCC TTTTAACTC CCTCTTCAA ACTCATCTCC TGGGTGACTG	300
AGTTAATAGA GTGGATACAA CCTTGCTGAA GATGAAGAAT ATACCATATT GAGGATATTT	360
TTTTTCTTTT TTTTTCAAG TCTTGATTG TGGCTTACCT CAAGTTACCA TTTTTCAGTC	420
AAGTCTGTTT GTTTGCTTCT TCAGAAATGT TTTTACAAT CTCAAGAAAA AATATGTCCC	480
AGAAATTGAG TTTACTGTTG CTTGTATTTG GACTCATTTG GGGATTGATG TTACTGCACT	540
ATACTTTTCA ACAACCAGAA CTCGAG	566

(2) INFORMATION FOR SEQ ID NO:1170:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1170:

GAATTCGGCC AAAGAGGCCT AGGGAGTCAA TCATGATCNT TTCATATATG CTGGCNATAG	60
AAAATGGTCT CGGTGAAGTA ATGGTCTGTC TGTCAAGCAT GACATCCTTG CCTGTGTTAA	120
GTTTTTGTG CTCTTCTGGG ATGTTGATCG TGACGTCTTG TCCGGGATTG AGAAGCTTCT	180
GTTGCTCTTC TGGGATGTCA TTCATGATCT CTTATATAT GCTGGCTATA GAAATGGGC	240
TCTGTGAAGA AATAGTGTGT CCAAAACCTT GGTACAGGCC CCCTGGGGAG GGTACCTTTG	300
AAGAACCAGA AGTTAGATCT TGTGAAGAAG AAGAAAGTAG GCTCGAG	347

(2) INFORMATION FOR SEQ ID NO:1171:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1171:

GAATTCGGCC TTCATGGCCT ACTTTTGGG GACTGGTACT GGAGAAAAAT CTGAGAGCAA	60
AAGTGCTTGG CTAAATTCCT TTTTCTTCT TTTAGTTTT GAAATCATGA ATCCTGTTTA	120
TAGTCCTGGA TCTTCTGGG TTCCCTATGC AAATGCCAAA GGAATTGGTT ATCCAGCTGG	180
TTTTCCCATG GGCTATGCAG CAGCAGCTCC CTGCCTATTC TCCTAACATG TATCCTGGAG	240
CGAATCCTAC CTTCCAAACA GGTACACTC CTGGCACACC TTACAAAGTG TCCTGTTCCC	300
CCACCAGCGG GGCTGTGCCA CCGTACGTCC CCCTCGAG	338

(2) INFORMATION FOR SEQ ID NO:1172:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 294 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172:

GAATTCGGCC TTCATAATCT CCTGCTCTTG AGAATGTGCC GATATGTCAA AATATCTACT	60
GAAACTGAAG AACTGAAGG ATCCCTACAC TGCTGTAAGG ACCAAAATAT TAATGGGAAT	120
GGCCCAAATG GCATACATGA AGAAGGCTCA CCAAGTGAAA TGGAAACAGA TGAGCCAGAT	180
GATGAATCCA GCCAGGATCA AGAACTTCCC TCAGAGAATG AAAACAGTCA GTCTGAAGAT	240
TCAGTTGGAG GAGATAATGA TTCTGAAAAT GGATTATGTA CCGGGATACT CGAG	294

(2) INFORMATION FOR SEQ ID NO:1173:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 286 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1173:

GAATTCGGCC TTCATGGCCT ACATAAAGA ACGAAAAGGA AGGAACTTCA GTCAACATAT	60
TTTCATTGAC TCCTTAGTAC AAGGGAACCT TAATGACCAA CAGATCCTAG AAGACAGTAT	120
GATATTTTCT CTGGCCAGTT GCATAATAAC TGCAAAATTG TGTACCTGGG CAATCTGTTT	180
TTTAACCACC TCTGAAGAAG TTCAAAAAA ATTATATGAA GAGATAAACC AAGTTTTTGG	240
AAATGGTCCT GTTACTCCAG AGAAAATTGA GCAGCTCAGA CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:1174:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 421 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174:

GAATTCGGCC	TTCATGGCCT	AAATATGAAA	AGACTAGACA	TACAGAGATA	TTTATCATAG	60
CAAAAAGTTG	CAAGTACTGG	GGATTGACAA	AATTATCACA	ATGTTTATAT	TATTATTATT	120
ATTATTATTA	TTATTTAATC	AATCAGTGTC	TTGCTTTGTT	GCCCAGACTG	GTTTCAAATC	180
CCTGGCCTCA	CGTGATCCTC	CCGCCTCAGC	TTCCCAAATT	GCTGGGATTA	CAGGCATGAA	240
CCACCGCGCC	TGGCCTATTG	TTCTGCCACA	TCTTTCTTTT	ATTTTGTAGA	GAGAGTCTTG	300
CTTAGTCCAG	GCTGGAGTAG	AGTTGTGCCG	TCATAGCTCA	CTGCAGTCTC	AATTCTTTGG	360
GCTCAAGCAA	TCCTCCTGCC	TCAGCCTCTT	GAGTAGCTGG	GAATACAGGC	ACACTCTCGA	420
G						421

(2) INFORMATION FOR SEQ ID NO:1175:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:

GAATTCGGCC	TCATGGCCTA	GTGCTTAAAA	GCTGTTCTCA	TAAGAATTCT	ACTGGCCTGT	60
ATCTACCCAA	CCACTTTCTA	TACCTCTCTT	CCAACCAAAA	GTCTTAATAT	GGAATATCC	120
CTCACCACGA	TCCTAATACT	GTCAGTAGCT	GTCCTGCTGT	CCACAGCAGC	CCCTCCGAGC	180
TGCCGTGAGT	GTATCAGTC	TTTGCACTAC	AGAGGGGAGA	TGCAACAATA	CTTTACTTAC	240
CATACTCATA	TAGAAAGATC	CTGTTATGGA	AACTTAATCG	AGGAATGTGT	TGAATCAGGA	300
AAGAGTTATT	ATAAAGTAAA	GAATCCAGGT	GCACTCGAG			339

(2) INFORMATION FOR SEQ ID NO:1176:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176:

GAATTCGGCC	TTCATGGCCT	AGGGTCACCG	GGTTCCGGGC	TAAAGAAGCC	CCCGCGCTCC	60
CTAGAATCCA	GGAACGGGGA	CTGGCAGAGG	CCTGGGTAGG	AGTCCATTGG	GCTGCTGGAG	120
GGCAGATTGC	CCAAAGGGAG	TCCACCTTGA	AGAAAGGGCC	TCTGCAGTGG	CGTACGGCTG	180
CCTTNTAGGC	CAGGGGTTCC	ACAACCCAGA	TGCTGTTCTC	GTTCAGAGCC	CAGAACATCC	240
TTGAAGAGCT	GCTGCAGGTC	CTTGGATTCC	ATCTTGGGCA	GTTCTCTGTG	GAAATCCTGT	300
CTAAGTCAGA	GCTAAGCATC	CCTTCACCTG	GGGTGCCTGG	CTTCTCAGGG	TCACTGGGCA	360
CTGGGGATGC	CTTCACGCCC	CCATCCTCAG	GTCCTGGTGT	ATCGGCTTTG	CCCTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1177:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177:

```

GAATTCGGCC TTCATGGCCT AAAGAACCCC GTGGTGATGG TGGACGAGAT TATGAGCTCC      60
AGCCCTCCCA AGTTCACCTT CCCTGAAGCA GGCTTACGAA TCATGATCAC CAATAAGTTT      120
GGACCTAGGA CCCGACTACG GATGGCCAGC AGGATCATCA TTAATGAGCG GCAGAGACTG      180
ATCAACTCGG CCAATGGTGT GAGCAGTAAG CCGCTTCAAA ACGGGAGGCA CGAGAACATT      240
GAGAACGGGA ATGTTCTCTG GGAAAACCCC GAAGACCCTC AGCAGAATCA GGAGCAGCAG      300
CCGCCGCCAC AGCCACCACC GCCAGAGCCA GAGCCGGTGG AGGCTGACTT CCTGTCCCCC      360
TTCTCCGTGC CGGGCTGGAG TGTAGTGGCA TGATCTCCGC TGA CTGCAAC CTCCGCTTCC      420
CGGGACTCTC GAG

```

(2) INFORMATION FOR SEQ ID NO:1178:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178:

```

GAATTCGGCC TTCATGGCCT AGTTGTTGTA AGCATATTTA TGGTAATTTG TTACTGCACC      60
CTTGGGAAAC TAACACACCA AGGTTTCATGG ACAGCATGAA AAAGAAAAAC CATAGGCCAA      120
TATTTGTTAG GAAAAGACAC AAAAGATCTA AACAAATATT AGCTCCTACC CCTCCAAAAA      180
AGCAAATTCA ATCCAGTAAG GCATTTGAAA AATATGTCAT GACTAATGAA CTTATTTAAG      240
TTTACCCAC AATACAAGGA TGGTTTAAAT TTTACAAAAA GTATTCATTT AATTCATCAT      300
ATTGATAAAG GAGGAAATTT AATTAAGATA ATCTCTTGAT TGTCTCTTCA TATCTTTTGA      360
TTATCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1179:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1179:

```

GAATTCGGCC TTCATGGCCT AAAAAATACA AAAAAAAAC NNNANNGAAG AAAAAAGAAA      60
AAACTACCAG CCTGAAAATG CATAGTGTTC GCTACCTTAT TGCTTTTAGC ACATCTAGAA      120
AGACACTAAA CCCAGTGAGA TTGCAAGTTT CAAAATATTG TGTGTATAT GGCTTTGCTT      180
AAACGGATAT ATTTGTTTCT GAGTGAAAAC TTTTACGTA GAGGTTTATT TGTAGAGGCT      240
TGTAAGTTA AGTGTAGTT TTAGTGTGTG TGTAAAGTTG TTCTTACCCC GCATTAGCAC      300
TCGAG

```

(2) INFORMATION FOR SEQ ID NO:1180:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 605 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1180:

GAATTCGGCC	TTCATGGCCT	AGCTGGGAGG	TGTAGGTTGT	AGCGAGCCGA	GATCACGCCA	60
CTGCACTCCA	GCCTGGGCAC	TATTGAGCAC	TGAGTGAACG	AGACTCCGTC	TGCAATCCTG	120
GCACCTCGGG	AGGCTGAGGC	TGGCGGATCA	CTCGCGGTTA	AGGGCTGGAG	ACCGGCCCGG	180
CCAACACAGC	GAAACCCCGT	CTCCACCAAA	ACCAGTCAGG	CGTGGTGGCG	CGTGCCTGCA	240
ATCGCAGGCA	CTCGGCAGGC	TGAGGCAGGA	GAATCAGGCA	GGGAGGTTGC	AGTGAGCCGA	300
GATGGCAGCA	GTACAGTCCA	GCTTCGGGCT	CCGCATGAGA	GGGAGACCGT	GGAAAGAGAG	360
GGAAACCGTG	GGGAGAGGGA	GAGGGAGAGG	GAGAGGGGAG	CGATTCTGGT	GTATCTTAAC	420
TTGGATTTCT	ATCCTGTTTG	GGTTTGCTCA	GCTGAATCTA	TAGGTTTGTG	TATAATACCA	480
AAGTATTTTG	TATTAGTGGT	TACAACGCAA	AGTTGGATCG	TGAAGTCAAT	TTTGTGGCTT	540
ATGACTAGTA	TTATGATTGG	TTTTTAATAG	AATAGAAAAT	GAAAATATAT	CCCAGGTATC	600
TCGAG						605

(2) INFORMATION FOR SEQ ID NO:1181:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 444 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1181:

GAATTCGGCC	TTCATGGCCT	AGGAGAGTGG	TGATGGTGGC	ACAACAATGT	GAATGTAATT	60
AATGCTACTG	AGTTGTATGC	TTAAAAATGA	AAAATTTTAT	GTTATACACA	TTTTATGACA	120
AAAATTAATA	GATGTATTAA	TAAGATTAAA	TGGGTTGTTT	TAATGTTCTG	TTAAAAATCAA	180
ACGCTGAGGG	CATTAATAGA	GATTCTTATT	TACCCACATG	TCCTTTTAAA	ACAAGAACCC	240
TCTTTAATAT	GTGTTTTCTT	CTGGTTTATA	GAACATATTT	TAAAACGGGC	TTACTATTCA	300
ATAATATCAA	TTGATTATTG	AGGAATACAA	GTTAATTAAA	TTGTGCAAGT	CAGTTGTTTG	360
GCCTTACTTC	ATGCTTTTGG	TGAACACTGA	TGCAGTACTA	GAATTACTCT	TTTTGATAAA	420
TTGCCAAAAG	CAGGCCACCT	CGAG				444

(2) INFORMATION FOR SEQ ID NO:1182:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1182:

GAATTCGGCC	TTCATGGCCT	ACTGTTTCAA	AAAAAAAAAA	AGGAATCCAA	AGAAAAAAAT	60
ACATCACCTG	CAAAAGGTGA	AGAGAGAAAAG	GAAGCTTTTT	CTCTAAAAAT	GGTGCAGCTA	120
TCCTCTGAAC	CAATTCCTT	CGGTTTAATG	TACCTGTATC	TTGGGGTTTT	TTTCCACTTA	180
ATTTATCCTG	GAGCTCTTTC	CATAACAACA	CTTGAAAGC	ACTCTCATCC	TTTTTTCACT	240
GCTGAACAGA	ATTCCACTGT	GCGGATGGAA	CTCGAG			276

(2) INFORMATION FOR SEQ ID NO:1183:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1183:

GAATTCGGCC TTCATGGCCT AGCATGTTGA GATAACTTCT GGGATTAAAA TAGTCTTTTG	60
CTTTACTTTT TTGGTTTCCT AAAACAACCT TATTGACTTT TAGTCCATAC TGTTATATTT	120
TTGTCTTAAA GAAAATTAA ACTACAAATA CCAAAGAAA ACATTTTAAA TTTAGGGATG	180
AGACTTTGGT GTATCGTGGG TCTAGGTTTA ATGAACACAT CTGGGGTTAA GTTGGCATT	240
CTTCACATCT CCACACCCAC ACCAACCATC ACAGCCCCC AAAATCTCGA G	291

(2) INFORMATION FOR SEQ ID NO:1184:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 364 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1184:

GAATTCGGCC TTCATGGCCT AAGGGGAGGC AGAGGCTGTA GTGAGCCGAG ATCGCGCCAC	60
TGTACTCCAG CCTGGGCAAC AACAGTGAAA CTCCGTCTCC AAAAAAAAAA AAAAAAAAAA	120
AAACTTGTT TTCCCTTGT AATTGGTTT TCCTAAAAAT TTAGTATTT CTAGAGAACA	180
TTTTTTTCCC AGGCTGTTAA CTGTTCTGA AAACAATCTT ACAGTAAGTA TAATTTAAAA	240
CATACCTCCT TTTCCAAAAG CTCATTGTGT ACCAAGCAAG CACGTCTGTA GTTAAAATT	300
GTTACTGAGG TTGGTTCAAG GTAAGAAGAA TGGAGAATAT TTACAACATC TTCAAATTC	360
CGAG	364

(2) INFORMATION FOR SEQ ID NO:1185:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 384 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1185:

GAATTCGGCC TTCATGGCCT AGAGTAAAGG TGGGATTACA GGTGTGTGCC ACCACGCCTG	60
GCTAATTTTT TTGTATTTTT AGTAGAGACA GGGTTTCACC ATGTTGGCCA GGCTGGTCTT	120
AAACTCCCGA CTTCAAGTGA TCTGTCCACC TTGGCCTCCC CAAGTGTGGG ATTACAGSTA	180
TGAGTCACCA AGCCCGGCCT GTATCCTTTA TTAAGAGAAA CAAACAAACA AACAAAAAAC	240
CCTTTTCTTG ACTGACATCC CTTTTCAGCT GCAGCCCTGT TTCTTTGCTA CCTTTGTAGC	300
AAAATTCAC AGGTTGTTC TACTTGCTGT TTCCAGTTTT TTGGTTTTTT TCCTTCCTA	360
GGAAATGAGA GGCCCATGCT CGAG	384

(2) INFORMATION FOR SEQ ID NO:1186:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 344 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186:

CTCGAGGGGG TCAATTCCTG GGGGCTCTTG ATATTGCTCA GAGCTCTGGA GAAGTGTTCA	60
TCCACTACGC TGCTGATGTC CCCTTGGGAG TAGGTGAAAA GGACACACCG GGAATTCCAT	120
TCCGTCTTTA TAGGCTTCTG TTTGCCTTTG GGCAGCCGGA TGGCAGTCTT CTCATTCT	180
TCCATTGTGA GTGAATGACA CAGGTGACAG CTCTTAATTC TGGACCATCA CCTGATTCTG	240
TGGCTGGGAA AAGATGGCCA GAGCTGCCTG GCTCACTTCA GAGCAGGTTA GTGCTTGCGG	300
AAGCAGGAGC TGAGGATTG TACTAGGCCA TGAAGGCCGA ATTC	344

(2) INFORMATION FOR SEQ ID NO:1187:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 0 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187:

(2) INFORMATION FOR SEQ ID NO:1188:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 394 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188:

GAATTCGGCC TTCATGGCCT AGCGATGGCT CACATCAGCA CTTTGGGAGG CTGGGGCAAG	60
AGCATCACCT GAAGCCAGGA GTTCAAGCCC AGCCTCGGCA ACACAGTGAG ATCTCATCTC	120
TACAAAAAAT TAAAAATGA GTTTGGCGTG GTGGTACATA ATCGTGTAGT CCCTGCTACT	180
TGGGAAGCTG AGGCGGAAGG ATCACCTGGG CTCAGAAGTT CAAGGCTGCA GTGAGCTATG	240
ACTGCACCAC TGCACACCAG CGTGGGTGAC ACAGTGAGAG CCTATTAAAA AAAAAACAA	300
AACCAATAAA CCAAACAAAC AAAACCTAAA ATACAAAAAA TTAGCTGGGC GCAGAGGCAC	360
GGGCCTGTAG TCCCAGCTAC AAAGAAACCT CGAG	394

(2) INFORMATION FOR SEQ ID NO:1189:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 355 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189:

GAATTCGGCC	TTCATGGCCT	AGGAGATGTA	CCTGATAGCA	ANTTACTGCN	TCTCAGCTCA	60
AAATTCACCC	TTCAAAACCT	TTTCTACACC	AATGGATAGA	ATTCCTGTCA	GCATTTCTCT	120
TNNAACGTTG	AACACAATGT	TAAGCTTCCT	CAGTGAAGGA	CCCTAGATGG	ACATTGCAGG	180
AAGAAGGGAC	TTCCCTTGTT	GGACCTAGAG	GTTGTACCAG	CATTGTAGGT	GGGAGGACAT	240
CCACTGGCTC	TTTGCAATAG	CCATGTGTCC	ATAAAGTATA	GTTTCTCAGC	AATCTCATTG	300
CCCAGTCTAG	GCNTGGCAAT	CACCCTCCTG	CAGCCTTATC	AACACATTGC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1190:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 451 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190:

GAATTCGGCC	TTCATGGCCT	ACTTGGAGAG	CCTCATGCCG	TCTCTACCTT	CGCACACTGG	60
TCAAGTATCT	GCTGAGCTTC	TTGGCCGCAA	GGATGCAGAA	ATAGGCTGAG	GGTCCATGGG	120
AAGAAAGACA	CAATGAGGCA	GTAGGAGGTG	GGAAGAAAAG	AAGACAGACT	TTCAAAATGG	180
AATTAGGCAC	TGGGGAGAGA	TCAGTTTCCC	CACATCAGGG	AGAAGAAGGT	ATAGGTGGGG	240
AAGGGGGTGG	CCAGGAGCAG	AAGGAAGAAG	ACTCAAGATG	GAAAGGGAGC	CGCTGTGCCT	300
GTGGCAATAC	CACCTGGAGA	GGTCGACTTC	ATACCTTCAA	GCCTTTTCCC	CTGGGGTTTT	360
GATTGTGTCT	GTGCCCCCTT	TCTTGTCTCT	TCTGCAGATG	CCCAGTAGGG	GCTACCTCAT	420
CCTCGTGCTG	TTCTTGTGTA	GCATTCTCGA	G			451

(2) INFORMATION FOR SEQ ID NO:1191:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191:

GAATTCGGCC	TTCATGGCCT	AACAGAGATG	GCTTAGACTT	CAAGACTTGA	TTTGTAGCTA	60
TGTTCTACCA	GCCTCCAGCT	GTCTATGCGT	TGGCCTCACG	CATGTCCCAA	ACGTGGTCCC	120
ACACATGTTT	ACACATTGGT	CCCACATATG	CTGAGAGTAA	TTACTTTCTA	TTCATCAGAG	180
GTCAGAATAG	AATAAAGAAT	GTTTATGTCA	TAGTATGACT	TTTTAGGTGA	TTTGAAAAG	240
CAAGAATATG	AATTCTATGA	AAAAAATCTA	TTAGGAAATT	ATGGAAATGA	CAGAATGCAG	300
AGGTATTTGG	AAATAGAAAA	AAACGGGTG	ATCTCGAG			338

(2) INFORMATION FOR SEQ ID NO:1192:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1192:

```

GAATTCGGCC TTCATGGCCT ACCGACCACA TTTCCTCTC ACCGCTGTAG GAATCCAGAT      60
GCAGGCCAAG TACAGCAGCA CGAGGGACAT GCTGGATGAT GATGGGGACA CCACCATGAG      120
CCTGCATTCT CAAGCCTCTG CCACAACCTG GCATCCAGAG CCCC GGCGCA CAGAGCACAG      180
GGCTCCCTCT TCAACGTGGC GACCACTGGC CCTGACCCTG CTGACTTTGT GCTTGGTGCT      240
GCTGATAGGG CTGGCAGCCC TGGGGCTTTT GTTTTTTCAG TACTACCAGC TCTCCAATAC      300
TGGTCAAGAC ACCGCACTCG AG                                          322

```

(2) INFORMATION FOR SEQ ID NO:1193:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1193:

```

CTCGAGGGGT GCTGAGCATT TTTTTCATGA ACCTGTGGTC ATTCATATGT CTTCTTTTGA      60
GATGTGTCTA TTCAGGTCCT TTGCTTATAT TTTAATCAAG TTATTTGTTT ACTATTGAGT      120
GAAAGAGTTC TTTATGTATT TTGGTTATTA GCCCCTTAAC AGATATATGT ATAGCTTGCA      180
AAATATTTT CCCAGTCTGT GGGTTGTCTC TCAATTTGT TAATCTTTT TTTTTTTTTT      240
GTTGCTGGGC AGAACGTTT TAGTTTGATG CAATCCCATC TGTCTATTTT TGCTTTTGTT      300
GCCTGAGCTT TTGGGGTCAT AGCCAAAAAA TCCTTGCCCA AACAGCAGTG TTATGGAGCT      360
TTCCCTTAA GTTTTAGGC CATGAAGGCC GAATTC                               396

```

(2) INFORMATION FOR SEQ ID NO:1194:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:

```

GAATTCGGCC AAAGAGGCCT AGGTAGGGAA TGCAAGCAGG CACTGGGGAG AAATNGGGCN      60
GGAAAGTAGT CTCATGGAAT AAGCCTTTT TACTTTAATT CAGCATTTAT TGCTTTGATT      120
AAAAAATAAT TTCAAAAATC TTTCTGCTTA CTGAATAAAG AATGCNTTGG AAAGAACAAG      180
AATGGATAAA GGAGAGTGCT TAGGAGGCTC CTGGAGCAGG AAGAGGTGGT GGCGAATAGA      240
CTACCGGAGC AGTGGAGGGT GGAGATGGAG AGACGTGGAA AGACTGAAGA CATATCTCG      300
AG                                          302

```

(2) INFORMATION FOR SEQ ID NO:1195:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195:

```

GAATTCGGCC AAAGAGGCCT ACTCAGAAAC ACAAGGGAAA GGACAGAAGA GGGACCGGGG      60

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```

AGGAAGAGAG TGAGGAGAGA GGTATGTAAG GTGTTTAGTA CACAGTAAGT GCTCAAAATG      120
TGTCCACTCC CTCTGCCAGG AGAGAGCAGA AAGTCAGAAA GGAGAGGACA CCAATAGAGA      180
GGAAAGAAAG GGGCCAGGCG CCGTGGCTCA TGTCTGTAAT CCTAGCACTT TGAGAGGCAG      240
AGGTGGGAGG ATCGCTTGAG CCCGAGAGTT CGAGACCAGC CTGGCCAACG TAGAGAGACC      300
CTGTCTCTAC AAAAAATACA AAAATTAGGC TGGGTGCGGT GGCTCATTCC TGTAAATCCA      360
GCACTAGGGA GCTCGAG                                         377

```

(2) INFORMATION FOR SEQ ID NO:1196:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 341 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1196:

```

GAATTCGGCC AAAGAGGCCT AGTGTACAC AGCACTCACA CTAAAGATGA AAAATTCCAT      60
TAGCTCATCC TGGTCTTCT GCTTACTTAC CTAATCATCT GTTTATGATT TAAAAAATA      120
GGGTTACTGT GAAGAGAGTG CTTGTGTGTG AGACAGAGAG GGAGGGTTGT TTTTCAAATG      180
TATAGAATAT ACCAATGTAG TTTTGGTTG GGTATTTTTT TAAATCATGA CTTTATTAAA      240
TTTACTTAAT TAATATTCAT TTTTATCCTT TTTTATGTT TTTAAAGTTT TTATTATTTA      300
TTAATTTATT TGAGATAAGG TCTTGCTCTG TCACCCTCGA G                                         341

```

(2) INFORMATION FOR SEQ ID NO:1197:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 363 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1197:

```

GAATTCGGCC AAAGAGGCCT ACAGAAATTT AAATTAATCT CTCATCCATT GGCTTTTGCT      60
ACTTTAGGTT AATATTAAAA TATAACATAC ATTTTGGGG TTTATGCTGT TAGCTCCAAA      120
CCAAAAGATT TTGGAAATTT ATTTTGGAAA TTTTGTGTTT AGAATATGAA TAAATCTGCT      180
TATTCAGAAA AATTAAACCT TGATAACTTG GGACCTCCTA TTCCTGTATG TTCTCTGACA      240
TACATTGAGG GATTTGGCTC TCTTTGTTT ATTTGTTTTA CTAGTCAGAC ATTCCTTTGG      300
CTGCCCATAC TTAATTCTGT TGGGTGTTTC CGCCCCGCC CTCAGCTTCT GAAGCTACTC      360
GAG

```

(2) INFORMATION FOR SEQ ID NO:1198:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 169 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1198:

```

GAATTCGGCC AAAGAGGCCT ACCTGACAAG TGTTAAGCAG ACACATAGAG AAAGTTAAAA      60

```

TTTGTTTGA GTCCTTAAGA GTGAAGTTAA GGAATAAGAC CTATAAATGG ACACCATGTG 120
 ATAGTGTCTG TCATCAAAGC ATGGACAATG GGCTTTGAGA GTACTCGAG 169

(2) INFORMATION FOR SEQ ID NO:1199:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 82 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1199:

GAATTCGGCC AAAGAGGCCT ATAAAAACGT TATGTTATTT TTGGAAGTTT TTCTCATATC 60
 TCTGTTGCCA GGGTCACTCG AG 82

(2) INFORMATION FOR SEQ ID NO:1200:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 349 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200:

GAATTCGGCC AAAGAGGCCT AAGGTGGTGC AGTGGGGACA GCACCTCCGA CCCTATGGGG 60
 TGTACCTTCA AGTAGCAAGG CTGACAATGA TGTCTAGAAA GGTCTCCACT TCTGCCTGAG 120
 TTTTGCCAAA CCCAGTGGTC TATAGGGATG TGGCAAAAGA ATGACCTACC GCAGTGTGAT 180
 TATCAGTGTT TTTTAAAATA AAGAGCACAG TTTTGCCTTT AAAATAATTC ACATCAACGG 240
 TATTTGGGAG AACATGGAGC TGGCATAACA TTGGCGTAGA AAGCAGGGCC AGGCCCCACCC 300
 ACGGGGCCCT CGTGTGGGA CGGGTGCCTG AGCCCCTGAG CCCCTCGAG 349

(2) INFORMATION FOR SEQ ID NO:1201:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 318 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1201:

GAATTCGGCC AAAGAGGCCT AGGGGAAGAG GTTCAAATGT GGGGCTGGAC GTGGCCTTGG 60
 GGTGCGGATC CCTCACAAAN ANTTCGTCTT CATAATCCTN ATGAGGTNGC GGGGAGTCCC 120
 GCAGGACAGA CTCAGATATT CGGAGGGAGA TCCTCCCTGG AGTGCTCGGG GCCCCAAGAG 180
 GTGTGTCTGG GTCAGAAGTG CTGCATAAAC TTGGAAGACT CTGCTGTTTT TGATAGTGCT 240
 TCAGGTTTGC AAAATCAGGG GCTGAGGATT CCTCAGGAAG GNTGTCTCTT CTGGCTGCGT 300
 GGGCCCCACTT TGCTCGAG 318

(2) INFORMATION FOR SEQ ID NO:1202:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1202:

GAATTCGGCC AAAGAGGCCT ACTACAAGAT AACTTCCCAG TACTTTAAAA AAGTCTCAAA	60
GTCATAAACA AGAAAGAACT GAGGGACTAT TGCATATTGG AGCGATCTAA AGAAGTATTA	120
CAATTTGTGG AATTCTTGAT TAAATCCTGG ACCAGCAAAA GGACATTAGT GGGAAAAATTG	180
ATGAAATTCA AATGAGATCT TATATTGAAG TTAATTGTGT CAGTGACAT TTCCTGGTTT	240
TCATAATTGC AAGTGATTAT GTAAGGTTTG TTAATATTGG GAGCAACCTC GAG	293

(2) INFORMATION FOR SEQ ID NO:1203:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1203:

GAATTCGGCC AAAGAGGCCT AGTTTTGAGA AATAAATGGG ATAGCACGTG TAAATCACAT	60
AGAACAGTGC CTGGCACATA AACACTCAAT AAATGTTAAT TGATACTATA ATTTATCTAA	120
TTTATCTTTA TTCCTCCTGC AAAGATTCCCT TGGACTATTT AGAATCTCTG GTCACCTAA	180
TGAGATGGTG GTGTTTTTTT TTGGTTTTTT TTTTTTTGGC TTAAAGAAGC TTCTGTAGAT	240
CAGCTGTAAT TACTGCTAA ATAATCTCTT GTAGTTATTA TTTTCAGTCT ACTTGGGATC	300
CTCGAG	306

(2) INFORMATION FOR SEQ ID NO:1204:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 598 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204:

GAATTCGGCC TTCATGGCCT ACGAGATAAT ACTGGAGTCA ACTGTACATT AACTTGCTTG	60
GAGGGCTATG ATTTCACAGA AGGGTCTACT GACAAGTATT ATTGTGCTTA TGAAGATGGC	120
GTCTGGAAAC CAACATATAC CACTGAATGG CCAGACTGTG CCATTCTAG AAAAACGTTT	180
TGCAAACCAC GGGTTCAAGT CCTTTGAGAT GTTCTACAAA GCAGCTCGTT GTGATGACAC	240
AGATCTGATG AAGAAGTTTT CTGAAGCATT TGAGACGACC CTGGGAAAAA TGGTCCCATC	300
ATTTTGTAGT GATGCAGAGG ACATTGACTG CAGACTGGAG GAGAACCTGA CCAAAAAATA	360
TTGCCTAGAA TATAATTATG ACTATGAAAA TGGCTTTGCA ATTGGACCAG GTGGCTGGGG	420
TGCAGCTAAT AGGCTGGATT ACTCTTACGA TGAATTCCTG GACACTGTGC AAGAAACAGC	480
CACAAGCATC GGCAATGCCA AGTCCTCACG GATTAAAAGA AGTGCCCAT TATCTGACTA	540
TAAAATTAAG TTAATTTTAA ACATCACAGC TAGTGTGCCA TTACCCGATG ATCTCGAG	598

(2) INFORMATION FOR SEQ ID NO:1205:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 325 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205:

```
GAATTCGGCC TTCATGGCCT AGTCTAACCA TTATGGAAAAG AGAACAGTCC CTTCAATATC    60
CCACTATCTG TAGGGCATGA CACAGCCAAA TCCAAGTCAG ACCATCCCTT TGATCAATTT    120
CTACCAATAA CTGTTTATTG CACACCCTGT ACAGAGCACT GCGACCAAGC TGTTCCCTGA    180
CCTTCTCCTT TCCTAGTGTT TGGTCACAAC ACTCCCTAAA GCCCTAACTC AAGTTCTTGG    240
GATGATACCA CCAGAAGAGG GAAAAAAGGA GCCGTCTTCC TGAAGTCACC TGGGTAGAGC    300
AGCTGGGGAT TTTCCCTCC TCGAG                                         325
```

(2) INFORMATION FOR SEQ ID NO:1206:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 126 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206:

```
GAATTCGGCC TTCATGGCCT ACCCACTGCA ATGATGTTTA CCAGCACTAT TAACTTACTG    60
CAGACTCTTT GTCTGTCTGC TGGAGTTCAT GCTGAGATCA TGCAGACCGA AGCCACCAGA    120
CTCGAG                                         126
```

(2) INFORMATION FOR SEQ ID NO:1207:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 349 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207:

```
GAATTCGGCC TTCATGGCCT ACTAATGTGG TTTTGTGAAG TTGGTGTCAA ATTTACGAGC    60
ATAAAATTGT TTGTAATATT CCCTTATATT CTTTAAAAC TGCTATAGGA TCTGTACTGA    120
TGTTCTGTTT CATACCTGAT GTTTGTGTC TTCTGTTGT CTTTTTNGT TGTGTTGTT    180
GTTGTGTGTTA GTTTTGATAG AGGCTTACAA ATTTTGTGCT TAATTGATT TCTCTATTTT    240
CCTCTTTTAT TTCTTCTTTT AATAATTCCT TCCTTCTTGC TTGGCTTCA TTTTGCTCNT    300
TTTGTAGTTT TTTTGGTAAT TCAATTACTG GTTCGACATC TTTCTCGAG                    349
```

(2) INFORMATION FOR SEQ ID NO:1208:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 198 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208:

GAATTCGGCC TTCATGGCCT AGAGTGATTG TGGGTATATA TAGAGCAGAT TGTTTTAAAA	60
AGAGACTTGT GAGCCAAGAC TAAATCCTGG TTTTACTATT TATTAATCTG TATAGCTATA	120
GCCAAAGCTAT TAAACTCCC TTATTTCTCA GTTTTTCGT TCATGAAGTG GGTACAGTAC	180
CTAAAGGTTT ATGTTGAG	198

(2) INFORMATION FOR SEQ ID NO:1209:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 546 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209:

GAATTCGGCC TTCATGGCCT ACAGGGGATG ATTCAGTCCG ATACAGTCAG GGAACCGTAC	60
ATAGAATAGA ATGACTAGAG TATAATCTGC AAAGGATGGA ATGGCAGAAG TAGTCAGAAg	120
AGGTATGCAA TGGTTGGATC AAAAAGAGCT TTGTATCCAG CGTCACAGGG CCTCAAATTG	180
TACTGTAATC ATATGCTTTT TACCTGTTCT CTGGCATTTA AATATTCTTG TAAAGAGCTA	240
AGCCATTACT GATAAAATGT CTGTTGTGTA CAGTTGTACA AATTAAATTC AGTCACAAAA	300
CTGAAAGAAC AGCAGTGGA CATCTATCCT AGTGAAAGTT AGAATACACT TTTGTGGTCT	360
TTAATAACAG AGTTGATTGT TTACCTTCTC CTTTGTTAG AAGACTGTA TGGGGATTGT	420
TTGGAATGAA GAGGTAGGAG AGAGAAATAA TTCAATTCTG TATTCTCCA TCATCTTTAT	480
ATTTGAAGTG AGAAATGTGT GTTCTATCA TTCATTCAA TTATTAAACA AAAACAGAGA	540
CTCGAG	546

(2) INFORMATION FOR SEQ ID NO:1210:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:

GAATTCGGCC TTCATGGCCT AAAGATATTT TAGCTAACAG GAGAACGGCC CAAGGGGGCA	60
TTCTCATGTT AATTACCAA TGTGGGCTTG TCAAAATCAA ATAGCTCCAG GAATAATGCA	120
AQTAGCTCTG CATCATTATA TTGTTTGGCC CTCAACCCAA TATTAGCTAC TTTTAAAAT	180
CTGGGTTTCAT TAGGCTTTTA AATTTAAAAG AGGAATCACT ATTGGGAGCC TTCAGAAGAA	240
TGTAAAGCAC AGCCAGCAGT GCCAGAGTTT AATGTAAATG ACATTAAAAA ATAGTTTCAT	300
ATCACACACT CGAG	314

(2) INFORMATION FOR SEQ ID NO:1211:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211:

GAATTCGGCC	TTCATGGCCT	ACGCATGAAA	ATTACTTAAA	CGTTGCACAC	AACGTTTCAC	60
AAAATCTTTT	GTGAAAGAAG	AAAAGGAAAT	TCAGTGTGTG	AGTCTCAGCA	GGAGTTAAGC	120
TAATGCAGCT	TAAAATAATG	CCGAAAAAGA	AGCGCTTATC	TGCGGGCAGA	GTGCCCCTGA	180
TTCTCTTCCT	GTGCCAGATG	ATTAGTGCAC	TGGAAGTACC	TCTTGATCTG	GTACAGCCTC	240
CAACCATCAC	CCAACAGTCT	CCAAAAGATT	ACATTATTGA	CCCTCGGGAG	AATATTGTAA	300
TCCAGTGTGA	AGCCAAAGGG	AAACCGCCCC	CAAGCTTTTC	CTGGACCCGT	AATGGGACTC	360
ATTTTGACAT	CGATAAAGAC	CCTCTGGTCA	CCATGAAGCC	TGGCACAGGG	CTCGAG	416

(2) INFORMATION FOR SEQ ID NO:1212:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212:

GAATTCGGCC	TTCATGGCCT	AAGGGAAGCC	TGAGCAGGCC	AGTGGGCTGG	GCGCAGAGCG	60
GGGTGTGGGG	GCCAGGCTGT	GTGACCATGA	CAGAAAGAAC	CCCAGCTAGC	CCAGCTTGCT	120
CCCTGGGGCA	GGACTCACCA	ACCCCGTGAG	GGCCTGGGGT	AACAGTGGTC	CAGTGGCCAA	180
GACCAGCAGT	CGCCAGGTAC	CCACTGGCCA	CAAACCAACC	AGAATACTTG	CCGCTGGAGG	240
CCCCAGCCCA	GGGTCAACCC	AGCCGCCGCC	CTGTCTTTGT	GTGTGGGTGG	GTCAGCCCCA	300
TCCCTGCCTT	TCGGACTAAA	AACTCGAG				328

(2) INFORMATION FOR SEQ ID NO:1213:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213:

GAATTCGGCC	TTCATGGCCT	AGAGGCATTA	ATATATTTTA	CATTACTGGG	ACCATAGTAC	60
AGAAATTTCT	AAATGGTTTG	TAAAATAACT	TGTTATTTGT	GTTGTTGTAA	AAGCAGTTAA	120
TACAATGGAA	AAACTCGTAA	TAAGAAGATA	CAGTTTAAAC	TCAAAAAGTT	TACCCAAGGT	180
AATTATGAGT	ACTACCTGGC	AAAACCTCAC	GGAAGCTGTG	GTATCACTTT	TATGATGGAA	240
GAATGGTGT	TGCATTTTGT	GTAAAAGTAC	TTGCGGCTGG	GCGTGGTGGC	TCATGTCCCA	300
GTGCTTTGGG	AGGCGAAGGC	AGGTGGATCA	TCTGAGCCCA	GGAGTTCGAG	ACCAGCCTAG	360
GCAACGTGGC	AAGAGCCTGT	CTCTCCAAAA	CCTACAAAAT	TTAGCCAAGC	TTGGTGGTGT	420
GAGCCTGTAG	TCCCAGCTAC	TTGGGAGACT	CACGCTGGAG	GATCTCTCGA	G	471

(2) INFORMATION FOR SEQ ID NO:1214:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 585 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214:

GAATTCGGNC	TTCATGGCCT	AGTCAATGAA	AGAATTCCTG	CAGTTTCATT	ACCTATGAAN	60
ATTGTGGGGT	CCTCTGTGG	GACATGAAAG	GGGGACAGAT	AGATGAATAT	TGTTTGGATT	120
TTTGTCCTC	AGTGCCATCC	ACAGACTCCA	GAAGGGATCA	GCTATTTGCT	GAACAATCTT	180
TCAGTTCTCA	TAGAGCCCTG	ATATGTTTTC	AGGGTCCACA	AATGCCTGTG	ACGGTGGCCT	240
CAAGAACCCA	GTGTCCCCTT	GTAGGTGGGA	TAGCATACCT	CTTAAAGGTC	AGCATGAGAT	300
TCCACCCATG	TCATCCCCAG	CATTGGTGGG	GTCAGCAGAT	CCTCTCTCTG	GGGTTTCNTT	360
TTCTGCTCAA	CCTCCCTGCT	TTGATGGACT	GCACAGACAA	GCCCCATCTT	GGTGGAAGGG	420
TCTCCCCATG	GGCTGTCCTG	GAGGGTCACT	CCCACAGATA	TGCCCCATCC	TGGTGAAGGG	480
GTCTCCCTGG	GGGCTGTCCT	GGAGGGTCAG	TCCCACAGAC	AAGCCCCATC	CTGTGGGAGG	540
GTCTCCCCGT	GGGCCATCCT	GGAGGGTCAG	TCCCACAAAC	TCGAG		585

(2) INFORMATION FOR SEQ ID NO:1215:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 529 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215:

GCGATTGAAT	TCTAGACCTA	CCTCGATAAC	CCAAGAGACT	ATGAGCAGAC	ATGACATCAT	60
TGCATGGGTT	AATGACATAG	TATCTTTAAA	CTACACAAAA	GTGGAACAGC	TTTGTTCAAG	120
AGCGGCCTAT	TGCCAATTCA	TGGACATGCT	CTTCCTGGC	TGCATTAGTT	TGAAGAAAGT	180
AAAATTTCAA	GCAAAGCTGG	AACATGAATA	TATTCACAAT	TTTAACTTC	TGCAAGCATC	240
ATTTAAGCGA	ATGAACGTTG	ATAAGGTAAT	TCCAGTGGAG	AAGCTAGTGA	AAGGACGTTT	300
CCAGGACAAC	CTGGATTTTA	TTCAATGGTT	TAAGAAATTC	TATGATGCTA	ACTACGATGG	360
GAAGGAGTAT	GATCCTGTAG	AGGCACGACA	AGGGCAAGAT	GCAATTCTC	CTCCTGACCC	420
TGGTGAACAG	ATCTTCAACC	TGCCAAAAAA	GTCTCACCAT	GCAAACCTCC	CCACAGCAGG	480
TGCAGCTAA	TCAAGTCCAG	CAGCTAAACC	AGGATCCACA	CTTCTCGAG		529

(2) INFORMATION FOR SEQ ID NO:1216:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 627 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216:

GAATTCGGCC	TTCATGGCCT	ATCGGCCCCG	CGGCGGAGGG	ANANGATCCT	CCACAGTGCT	60
CTCTTCAGTN	CCCCTTCAA	TGCTGTTT	TCTCAGCGGA	ANGTACTACG	CCCTGTATTT	120
CCTCGCCACG	CTCCTGATGA	TCACGTATAA	AAGTCAGGTG	TTCAGCTATC	CTCACCAGTA	180
CCTGGTCTC	GATCTTGCTC	TGCTGTTTCT	GATGGGGATT	CTAGAAGCAG	TTCGGTTAAA	240
CCTGGATACA	CCCCTGATGC	CCGATGTCCA	GTGAGGAACC	AAGGCTGCGG	GGAAGGGTGG	300
CCCCACCCCT	TCCTCTTGTT	ATCAGGCTC	AGACACACTA	GGAGGATGGA	GGCGAGTTCT	360
CTCAGCTGCC	CATCCCCTG	AGGGGTGCCC	GGCCGTCAGT	GTCTTGTGTG	CACTCACGTC	420
CCAGAACCCT	TAGAGCTTGC	CCCCAGGGC	GGGCACTGCT	GGGAGGGTGC	GAGCACCCTC	480
GCGGCACAGA	GGCCCGGTTT	TTGNTGATC	TTCTGGGGCC	TGGGCTGCCC	CTGAGGTGGT	540
GGGGACAGGG	TGTGGCCTGG	CCCTGCTGGG	GGCTGCTAGG	CCAACGGGAC	CCTCCCCAAG	600

CCGCCGCAC ACTGCAGGTG CCTCGAG

627

(2) INFORMATION FOR SEQ ID NO:1217:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 486 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217:

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GCAAAATATTG AACATAATCT AAAATCTGAG GAAGAAAAGG ATCAGGAAAA GCAACAGATG      60
TTTGAAAATA AGCTTATAAA ATCTGAAGAA ATTAAAGATA CTATTTTGCA AACAGTAGAT      120
TTAGTTTCTC AAGAGACTGG AGAAAAAGAG GCAAAATATTC AGGCAGTTGA TAGTGAAGTT      180
GGGCTTACAA AGGAAGACAC CCAAGAGAAA TTGGGGGAAG ACGACAAAAC TCAAAAAGAT      240
GTGATCAGCA ATACAAGTGA TGTGATAGGA ACATGTGAGG CAGCAGATGT GGCTCAGAAA      300
GTGGATGAAG ACAGTGCTGA GGATACGAG AGTAATGATG GGAAGAAGT GGTGGAAGTA      360
GGCCAGAAAT TAATTAATAA GCCCATGGTG GGTCTGAGG CTGGTGGTAC TAAGGAAGTT      420
CCTATTAAAG AAATAGTTGA AATGAATGAA ATAGAAGAAG GTAAAAATAA GGAACAAGCA      480
CTCGAG                                         486

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(2) INFORMATION FOR SEQ ID NO:1218:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218:

```

GAATTCGGCC TTCATGGCCT ATGAATTCTA GACCTGCCTC GAGATCTGAG CAGGAATTAC      60
TCTCAGATGA CGCTTCATCT GTTTCACAAA TTCAGTCTCA AACTCAGTCA CCGCAAAATG      120
TCCCTGAAAA ATTAGAAGAA AACCATGAGC TGTTTTCCAA GAGCTTCATC TCCATGGAAG      180
TGCCTGTCAT GGTAGTAAAT GGCAAGGATG ATATGCATGA TGTGAAGAT GAGCTTGCTA      240
AGCGAGTGAG TAGGTTAAGC ACAAGTACAA CCATAGAAAA CATCGAGATT ACTATTAAGT      300
CTCCAGAGAA AATCGAAGAA GTCCTGTGAC CTGAAGGCTC CCCTTCAAAA TCGCCATCCA      360
ACAAAAAGAA GAAATTCGCG ACTCCTTCTT TTCTGAAAAA GAACAAAAAA AAGGAGAAAG      420
TTGAGGCCTA AATAAAGTCT TTTTATAATT ATTATTATAA CAATGTGACA TTGCACATCT      480
AAATACCACA TCTCGAG                                         497

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(2) INFORMATION FOR SEQ ID NO:1219:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 524 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1219:

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GAATTCGGCC TTCATGGCCT AAAAGATGGC GGAGGTGCAG GTCCTGGTGC TTGATGGTCG      60

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AGGCCATCTC	CTGGGCCGCC	TGGCGGCCAT	CGTGGCTAAA	CAGGTACTGC	TGGGCCGGAA	120
GGTGGTGGTC	GTACGCTGTG	AAGGCATCAA	CATTTCTGGC	AATTTCTACA	GAAACAAGTT	180
GAAGTACCTG	GCTTTCCTCC	GCAAGCGGAT	GAACACCAAC	CCTTCCCGAG	GCCCCTACCA	240
CTTCCGGGCC	CCCAGCCGCA	TCTTCTGGCG	GACCGTGCGA	GGTATGCTGC	CCCACAAAAC	300
CAAGCGAGGC	CAGGCCGCTC	TGGACCGTCT	CAAGGTGTTT	GACGGCATCC	CACCACCCTA	360
CGACAAGAAA	AAGCGGATGG	TGGTTCCTGC	TGCCCTCAAG	GTCGTGCGTC	TGAAGCCTAC	420
AAGAAAGTTT	GCCTATCTGG	GGCGCCTGGC	TCACGAGGTT	GGCTGGAAGT	ACCAGGCAGT	480
GACAGCCACC	CTGGAGGAGA	AGAGGAAAGA	GAGAGCCACT	CGAG		524

(2) INFORMATION FOR SEQ ID NO:1220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 444 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220:

GAATTTCGGC	CTTCATGGCC	TATGATAAGT	TCATTCTGGC	TGGAGTATGG	TGGAGAGCCA	60
TGGAGTACTG	GTAGGTGAGG	GGCTGGAGGA	GGGATAGGTT	GGAGATGTTG	AGAAAGGCTT	120
TAAAGATCGT	GGTGAGTTGT	TTGGGTTTGT	GTTGGCTGTG	AGGAGTCATC	AGAGGTTTTA	180
ATGCAGGAAA	GTGGTTTGTA	CTCTATACTC	CAGCAGCAGA	GGTTGGTTGA	GTGGTGCTCA	240
AACTTTGTTG	TGTATTGGAA	TCATCTGAAG	AGCTTATAAA	AATACCAGTA	CCCAGGCTAC	300
AAACAGTAAA	ATCAGATTTT	CTGAAGGAGA	GGCCCAGATA	TTGGATTTTT	GATAATTTCC	360
CAGGTGATTC	CAGTGCGTAT	CTGAGTTTGA	GACTACTCT	TTTAGAGGGG	TCTGATGGAG	420
TAAGGAATTC	AGAGGCCACT	CGAG				444

(2) INFORMATION FOR SEQ ID NO:1221:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221:

GCTTGAACAA	CACAGGTTTG	AACTGTGCAG	GTCCACTTAT	CCATGAGTAT	TTTCAACCAA	60
ACTAGTATCA	AATATACAGT	ATACGCGGGA	CTTGAAACCC	ACGTGTAAGG	AGGACGAAGT	120
TTTCGTGTAA	GTCAGCTCCG	AAGCACTGAC	TTTGGGACTT	GAATTTGCAC	AGATTTTGAT	180
ATGAAGTGGG	GAAGGGGGTA	ACTTGGTACA	AATCCCCTGC	ATATACTGTG	GGATGACTCT	240
AGTTTGATTC	TGGAGTGATA	TATGGAAGAC	ATAATTCTTC	CCATAAAAAA	TCATAATCTT	300
GGTAGTCTAT	CATAGTCTAG	CATTAAGAGC	ATGAACTTTG	GAGCCGTCCT	CGAG	354

(2) INFORMATION FOR SEQ ID NO:1222:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222:

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GAATTCGGCC TTCATGGCCT AGCTAGTTCA TGCTTGCCTT GAAAGAGTGG TCGTTTGCGC      60
TGGGTATCACTA CTGTGTAGTA TTGGGGATAC TTAGGTGAGA AAAAACTTA ACGCTAGAGA      120
CGTTCACGCA CTAGTGGAGA AGCCAGGATT GTTGCCCTAG AGTTACAGTA GATAAAAGTA      180
CCTCAGAGAA CTGCGGGGGC TCCAACCTG GACGCTTGCA CCGGAGTATT AAATCCAGCT      240
AGAGAATGGC ATGTGCAAAG ATACAGAGCT TTTAGAAGTT GCCTGCATT CTTGGCCCCA      300
TCCTCACTCG AG                                     312

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(2) INFORMATION FOR SEQ ID NO:1223:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 371 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1223:

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GAATTCGGCC TTCATGGCCT AATAAAAACT GGCTGGGCGT GGTGGCGGCA CCTGTAATTG      60
CAGCTATTTG AGAGGCTGAG CCAGGAGAAT CGCTTGAACC TGGGAGATGG GGGTTGCAGT      120
GAGCCGAGAC CGCCCCATCG CACTCCAGCC TGGGCAACAA TAGTGAAACT CCGTCTCAAA      180
AAGAAA AAAA GTTTCCTTAG AATGGAAAAT ATTCAATTCAT GAGCTCTTTT GGCAATCCGT      240
CATCAGTATA TTCTGAAAAC CAATAAGATG TTGCCAAGTT GGGGGCGAGA GCTATGTAAT      300
GCAAGGCATA TGCCTGATGA AGTATACAAA TACACCTGAC CAGAACTTT GTCTCCCAA      360
TAAGTCTCGA G                                     371

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(2) INFORMATION FOR SEQ ID NO:1224:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 404 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1224:

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GAATTCGGGC TTCATGGNCT AAAGAAAAGT GCTGTAAATG AGCATGTGCC TTGCTGGGCA      60
ATAATCATTG TAGAGTGGTA CACCCAGTGC CTTACAGGA TGCTTGAATA CTGCCTGCAA      120
GCCTCGTGTC ATTAGCCAG TAGGCATATG ATAAGCCTCT GGTTCATCATT TCCACTGTTA      180
AGAGTTAGTG TCAGATATGG AGCACCAATA GGCTTGTAAG TGAGAGCATC CCTCAAAGTT      240
GTCACCTTAG GAGACTCTGA TGACCATGAT GCTGCCATTG TCCAAATGTG CACTCATCTG      300
TCTTTTGGGG AGTGATTCCC GACAATTTAT AGATTACAAG AGAAAAGCAG TCTGTATTTT      360
CATCAAATGA TAGTTTAAAT GGAAAATGAA TCAGAAGTCT CGAG                                     404

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(2) INFORMATION FOR SEQ ID NO:1225:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 395 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1225:

GAATTCGGCC	TTCATGGCCT	AGTTGGGGTT	AATATGGCA	CCTAACTTAT	AGAAGAGGAA	60
ACCAATTTAG	AGACATTAAA	ATACTTGTTT	AAGGTTACAC	GGCAGGGAAA	AGGCAGAGTC	120
AGGATCTGTA	TTCTGTAGTC	TGAATCCAAA	GCGAATCCAA	AACTCTGAGG	TGCTNTGCTC	180
TGCTACCTGC	TGATGGTTCT	GCTGGGGGAT	GCTCAACCAC	CAGATGTCTT	ACTTGGGAAC	240
TGCACTGGAG	GTCGAGGGTC	TGCATTCTCC	TTCTGTGCGTA	AAATCACAAAC	GTCCCCATCT	300
TTCAAGCCAT	AAGAAGCCAA	TGATCTGTGG	TTGCTGTGTA	GAGGTCTTTC	CGCATAGACG	360
ATCTGGCTCT	CGGCTGCGGG	GATGCCAGAC	TCGAG			395

(2) INFORMATION FOR SEQ ID NO:1226:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 284 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:

TCAAAGGTCC	TTTTGTGGAA	GCGGAGGTGC	CCGATGTTGA	TCTGGAGTGT	CCTGATGCAA	60
AGTTGAAAGG	GCCCAAGTTT	AAGATGCCTG	AGATGCACTT	CAAGGCCCCC	AAGATCTCCA	120
TGCCTGATGT	GGACTTACAC	CTGAAAGGCC	CCAAAGTCAA	AGGGGATGCG	GATGTGTCGG	180
TGCCAAAATT	GGAGGGAGAT	TTAACAGGCC	CCAGTGTGGG	TGTGGAGGTG	CCTGATGTTG	240
AGCTGGAGTG	TCCTGATGCA	AAGTTGAAAG	GCCCTTGTCT	CGAG		284

(2) INFORMATION FOR SEQ ID NO:1227:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 718 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227:

GAATTCGGCC	TTTATGGCCT	AAGCAGACGG	GCAGTAGGTC	CCAGAGTTAT	ACTTCGGAGC	60
ACATGTTCAA	GAGGGAAATG	ACGACCGGCC	CCCACGGTCC	TGGGATGCAG	GTGTGAGGAC	120
TGAGAATGCT	GGACGGGGTG	TGGTCGAGGC	ATGGTCAGGG	TGGCCCCGAG	CTGTGCCCCA	180
CCCCAGGGAT	GCAGCAAGGG	TGCTCTGTGC	AGGACCCCGA	ACTTGGGCTC	TGCCCCATTT	240
CAGTGTCTGT	TGCATGTCAC	GCTGGCATCT	TCGGCATGTC	CACAGTTTGT	CACCCCCCAT	300
TTGGAGAAGC	TGCAGCGGAA	GATGGTTTCC	TCTGTGCCTT	GCAGGCAACG	TCATCCATCC	360
AGATCCTCCC	AGTGCCTTGC	CCGAATCGAN	CTGTGCGGTA	CACTCCTCCA	NACCGCGGAA	420
GCCGAGCATG	CGGCACACCA	CGTCTCCGTC	CTTCTTGTC	CAGCCGTCGT	CACACACAGT	480
GCCCCAGCGC	CGGTCGTGGT	ACACTTCCAC	GCGGCCCTCG	TGCGGACCTG	AGCCATTACAC	540
CAGGCGGATC	ATCATCGGGG	CCTCCACGCC	ACTGGCATCC	CCAGCTCTGT	CTCCTTTCTC	600
TCCTTTCTCT	CCTTTTGGGC	CTCGGTCACC	TAAAACAGAG	GAGGAAACTG	GCATTAGAAA	660
TGGAAAGAAA	TCCTAATTGT	GAATAAAATA	TTACCTGCAG	GAGATTGATG	AACTCGAG	718

(2) INFORMATION FOR SEQ ID NO:1228:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 389 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228:

GAATTCGGCC TTCATGGCCT AGCTGGGTTG ACCCTGCAGA GGCCAGAGAG CCGAGGGGCC	60
ATGTGTGCTG GCATGGGGCT CCCTGCCCCCT TTCTGAGGCT CAGCACGGAG GGGAGAAACC	120
CACATTTTCA GAGGGAACCA GCAGCAGAGC AGAACCAGTA ACCAAGATCC CGGCAACCCC	180
TTGTGCTGAC CCCACACACG CTTCCCTCTT TCCTGGCCAG GCCACTCCAA AGCTCTGTGC	240
ACACAGACAA TAGACATCAG GACTTTCATC TTCACTCGTC ATCTGGCAGC AGAGAGCCTG	300
CAGGGCTGGG CTGCAGGGAG AAGAGTTCCT TTCCTCACGC ATCCAGGCAA GGGGAGAGCA	360
GCTCTGTGCC TGCCACTGGC CCACTCGAG	389

(2) INFORMATION FOR SEQ ID NO:1229:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1229:

GAATTCGGCC TTCATGGCCT ACACAAACAT GATTTTATTT TATTATTTTA TTTTATTTT	60
TTATTTTATT TTGAGATGGA GTCTCGCTCT ATCGCCAGG CTGGAGTGTA GTGGCATGAT	120
CTCGGCTCAC TGCAAGCTCC GCCTCCTGAG GCGGGAGAAT TCCTTGGGCC TGGGAGGCGG	180
AGGTTGCGGT GAGCTGAGAT TGCCCCATTG CACTCCAGCC GAGGCAACAA GAGCGAAACT	240
CCTTCTCAA AACAACAAA CAAACAACAA CAACAACAAA ACTCTCGAG	289

(2) INFORMATION FOR SEQ ID NO:1230:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 600 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1230:

GAATTCGGCC TTCATGGCCT AATGTGTTTT ATGAACGATA GATCACATCA GAACTCCTGT	60
GGGGAGGAAA CCTTATAAAT TAAACACATG GCCCCCTTAG AGACCACAGG TGATGTCTGT	120
CTCCATCCTT CCCTCTCCTT TTCTGTCACC TTTCCCCCTA GCTGGCTCCT TTGGACCTAC	180
CCCTGTCCTT GCTGACTTGT GTTGCAATTG ATTCCAAACG TGTTTACAGG TTCTCTAAG	240
CAATGTTGTA TTGTCAGGCT TTTCTGAATA CCAAATCTGC TTTTGTAAA GCGTAAAAAC	300
ATCACAAAGT AGGTCATTCC ATCACCACCC TTGTCTCTCT ACACATTTTG CCTTGGGGA	360
TCTGGTTGGG GTTTTGGGTT TTTGTGTTT GTTGTATTATT TGTTATTTTA AAGGTAAATT	420
GCACTTTTAA AAAAATAAATT GGTGACTTAA ATATATTGTC TTTTCTTCTC ACCTGCACTT	480
AGAGGAAATT TGAACAAGTT GGAAAAAAC AATTTTGTGTT TCAATTCTAA GAAACACTTG	540
CAGCTCTAGT ATTCACTTGA GTCTTCCTGT TTTTCTGTAA CCGGGTTATC CTGCCTCGAG	600

(2) INFORMATION FOR SEQ ID NO:1231:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1231:

GAATTCGGCC	TTCATGGCCT	AGGAGGGCCA	CATCTGCCAN	AGCCTGGAGT	CTGCGAAGGC	60
CGGGACCCGG	TTCCCCGGCC	CACAGTGGGG	GTGTGCAAAC	CCGAGAGAAC	TGGGTGCAA	120
ATTCTGAAG	AATCAGCATC	ATGTTTGGCA	GCTGAGTATT	GGAGCCAGGA	GCCTGCCATG	180
AGGTTTTGAG	AACAGAGTGC	TGTTTTAGAG	CTGGCAGCAG	CATCTCAGCC	CAAGAGAAGG	240
TTATATTCCC	AGAGGATGTC	AGTCCCAAGG	ACCAGTAGCT	GCCATCAGTT	TGGATTCTGA	300
AAACTAATG	GCATCAACAC	TGGGTGTAGA	AACATGCTTG	CCTTATGTAT	CAGAGGACAT	360
GCTCAGCAGA	TCCAAGAGAT	ATATTTGGCA	ACTTTTCTA	GAAAAGGCAC	CTGCCCTCGAG	420

(2) INFORMATION FOR SEQ ID NO:1232:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 602 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1232:

GAATTCGGCC	TTCATGGCCT	ACCACCCGCG	ACAGTTTCCC	AGCAGGGCTC	ACAGCAGCGT	60
TCCGCGTCAT	GGGGATTGG	CAGCGTCTGC	TGCTTTTTGG	TGGGTGTGCG	CTCCGGGCTG	120
GTGGCGGGGC	CACTGCCCCG	CTTGGGGGAA	GCCGAGCGAT	GGTTTGTGGG	CGCCAGTTGT	180
CTGGCGCCGG	GAGTGAGACC	CTAAAACAAA	GAAGAACACA	AATCATGTCC	CGAGGACTTC	240
CAAAGCAGAA	ACCGATAGAA	GGTGTTAAAC	AAGTTATAGT	TGTGGCTTCT	GGAAAGGGTG	300
GAGTCGGAAA	ATCTACTACA	GCAGTGAATC	TTGCACTTGC	ACTAGCAGCG	AACGATTTCGT	360
CCAAGGCCAT	TGGTTTGCTA	GATGTGGATG	TGTATGGACC	TTCAGTTCCA	AAGATGATGA	420
ATCTGAAAAG	AAATCCGGAA	TTATCACAGA	GCAACCTAAT	GAGGCCTCTC	TTGAATTATG	480
GTATTGCTTG	TATGTCTATG	GGCTTTCTGG	TTGAAGAAAG	TGAACCAGTA	GTTTGGAGAG	540
GCCTTATGGT	AATGTCGGCC	ATTGAGAAAT	TGTTGAGGCA	GGTAGATTGG	GGTCCACTCG	600
AG						602

(2) INFORMATION FOR SEQ ID NO:1233:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 571 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1233:

GAATTCGGCC	TTCATGGCCT	ACTANACCTG	CCTCGTAGTC	CAGAAAGATC	CCCACGCGCC	60
TGGGTGGGTC	CCGGAGTGGA	GCCAAGGCC	GTTCCGAGGA	NTTGTAATAG	CTCCCCAGGA	120
AGACCAGGAT	CCAGAAGCCG	TTGCCCGCGN	ANAGCTCGCC	CTTCTCCTTC	CTGTTACAGT	180
TCTCCTTGCA	CACCCCCAGG	GCCAGCTGG	TGCGGTCCCC	AACCTCCACC	TCCCAGTAGT	240
GGCGGCTGAG	GTGAAGCGCT	CCTGGCCCAG	CACGCAGGGG	CCGGGGTCAA	AGCGCTCTGG	300
GCTGTCCGGC	ANGGCCCTGCC	GTANGTCCCC	CCGCTGCACG	CGTCCGCCTG	TCTTCAGACA	360
GGATCAGCTC	AGGGTTGGCG	GTGTCCGGGT	CCAAGGTCAC	GTCCCCTCGA	AACCTCCGCA	420
GTGTTTNTAC	CAGTCCCCGG	ACCCTGCACA	CGGTCTCTAG	CTCCATAGGC	ACAACCTNTG	480
GGGGCTGCAG	CTTCACATCC	TGGACCCTGC	NCAGGGCGTC	CTTGATGTCC	TGCAGCAGCC	540
CCAGAGCAGG	CAGCTGGCAG	CGGCCCTCGA	G			571

(2) INFORMATION FOR SEQ ID NO:1234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 631 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1234:

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GAATTCGGCC TTCATGGCCT ACTTAATTTA TAGTCTTTT CTTGTGAAAT GATCATTGAA      60
GTAGTTACTA ACAGGTAATG AAATAAAATA CCAATTTTGC TAGTGAAAAA TAGTTTTCAA      120
CTGAGAAAAG CACTTGGCAG AAGACCTACA AACATGCAGG CTAATGCTAC ACTCTATTGC      180
AGCTTCAAAT AAGTTGTTTT TGATGCCTTT TGAGAAGAAC AAATAAGAT GAAAATAATT      240
CCTTGAACAT TTATCAGCAT TGCTGTTTAG GTACCCATTA GAAAGTGATT AACATTGAT      300
ACCTACCCTT TCCAAAACAC AAAATCACTG GCAAGCATCA TCACACACTC CTAAACCAGC      360
AACATCTGAG AAGCACAACAC CACCTTCCCT TTTGTCTAAT AACCTGTGGG TTAGTTATTG      420
GAACTGCAAG GCTTACAAAC TCCTCCCCTG TCCTTTATCC TTATGTAAGC TTGCACATTC      480
TCCAGGAATA GCTATTTTCA AAGGTAATTT CAAAAGAATT AATACAATGA ATTCTACTGG      540
GCAGTTTGGG GGAAAATATT GACGATATTA AAATTTAAAA AATGCCTGCC TGACACATAT      600
AAGGCCTCCC CAGTCCCTCA TACAACTCGA G                                     631

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(2) INFORMATION FOR SEQ ID NO:1235:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1235:

```

GAATTCGGCC TTCGTGGCCT AAGGACAGTG TATAAAAGG CAGCGTCACA CAGGTGGGCT      60
CTGGGGTCCT TGGTCCATTA GGAGATGGCC TTTGCCCTCAG GAAGGAAGGC TTCCCACTAC      120
TTTGCCAGCT GCTGCTGTGA GTAAAGGAGT GTCTCAAGGT ACTTGATGAC GTGTTCTTG      180
AAGTCCTTGG ATTTCTCTTT CTCAAACCGT ATCACTTCTT TTCGGACCAC TGTGAAATC      240
CTCTCGAAGT CCCTTTCATA TTGAGTCACC CGAGAGTCCC ACTCGAG                                     287

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(2) INFORMATION FOR SEQ ID NO:1236:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 537 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1236:

```

GAATTCGGCC TTCATGGCCT AGGCTGGCGG GGTAGGGGTT GGTGGTAAG GCTTGAGCAG      60
AAGGTTCTAG ATGCATTCAG GAGATAAAGA TGCAATTGGG GTTATTGCAC TTCTCCTAGA      120
AACATAAACA TTGACTTCCT TTTGTGGAAG AAAAATGTTA TGTTAGCTAT TTGACGTTTC      180
AGGAAGGGTG GCTTCAGCTT GGNNATTNGG GATGTTTGTC TACANGTGGC CAGGCTGCTT      240
TCTGGCTTGG AAGACTATTG TTTCTTGGGA ATTGTCTGTA TCAGACATCA TGGGAGCAGA      300

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TCCAGGGCGA CATCAAAGGG AACATGATTN NCNNAGGACC AGAGGGGCTT GGATGCAGAT	360
GATCATCATC TGGGCACTGN TGGATACTGA GTAAGCCCCA GCTGCACCCC ACCTCTGCGC	420
TCTGAGCATG GGAGGCAGCC TGTGCAGCTA TAACTCAGCC TGACTTTTTT CTTCCCTGCA	480
TACTCTTGAA ATACACTGGA GATGAGTAGG GCGGAGTGAG CTGCACACCA GAATAAG	537

(2) INFORMATION FOR SEQ ID NO:1237:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1237:

GAATTCGGCC TTCATGGCCT ATCTCCANAT AATTNGATC ATAGGCCGGA GTGAGTCATT	60
CCACCTGCAC CTTTCTGTAC AAATACTAAT TCAATTTTAA GTCTTAAGTC ACTTTTAA	120
TATATATGAT TTTCTGCTCT TCCCACTTCC TCCCNTCT ACTGCTCTCC CATTTCCT	180
TGCTGGAGT AGCCACATGC TTTTGCCCC CCAACCCTTG TATATGGGA CAGTGGGTC	240
AGTGCAGCTA CCCTTCTTT CCCTCCTGCG GAACAGCGGA CCCAGCAAGA GCATCCACAT	300
CTCGAG	306

(2) INFORMATION FOR SEQ ID NO:1238:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1238:

GAATTCGCCT TCATGGCCTA ATTTATGCC CCATATTTGG CATATAGTGG AAGGAGAAAG	60
GATGATTTT TGCAGTATTT AATAACATTG AGCCTTGAAG CTGTTGGCA AAAGGTAAGT	120
TTCTTTGTG GCTTTGCTGA AAAACAAGGC ATAGATTTAC ATAGATACGT GTTTAATTCT	180
CTGCTTCACT AAAGAAAGCA AATGCCTATT AAGCCACTTC AGTTGGGATA ATCCCTGATT	240
ATTGTGAGAT TGAAATTACT TTGTCAATT TACAAATAGT TTTTATCTTT CCATTACAT	300
ATTTACCATG ACAACTCGAG	320

(2) INFORMATION FOR SEQ ID NO:1239:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1239:

GAATTCGGCC TTCATGCCTA CAGCGATGAG TGCACGAGTG AGATCAAGAT CCAGAGGAAG	60
AGGAGATGGT CAGGAGGCTC CCGATGTGGT TGCATTCTGT GCTCCCGGTG AATCTCAGCA	120
AGAGGAACCA CCAACTGACA ATCAGGATAT TGAACCTGGA CAAGAGAGAG AAGGAACACC	180
TCCGATCGAA GAACGTAAAG TAGAAGGTGA TTGCCAGGAA ATGGATCTGG AAAAGACTCG	240

GAGTGAGCGT GGAGATGGCT CTGATGTAAA AGAGAAGACT CCACCTAATC CTAAGCATGC 300
TAAGACTAAA GAAGCAGGAA GACTCGAG 328

(2) INFORMATION FOR SEQ ID NO:1240:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240:

GGGGATCCTT TTATTTTAAT CACAAAAATG CTGAAAATTT TGGGTTGCAA TTCAATCCA 60
CAGTAAAGCA TGGGCATTTT TTTTTTTTTT TTAAATCAGA GTGAACTGCC TCGCGTCTTT 120
CTTTTAAAGG GTTACACTGT ATGTGTTCTG TGTTTTATTT AACTGTTCCC CTCCTGAGGG 180
GCATTCGGCT TGTTTGAGCT TTTCTCCCTC TTGCTGACAG TGCTGCAGTA ATCATTCTTG 240
TCCATTTTAA TCCCTATGTA TTACACGGT ATTCTCGAG 279

(2) INFORMATION FOR SEQ ID NO:1241:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 445 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241:

GAATTCGGCC TTCATGGCCT ACGGAAAAGG AAACCTTGGT GGGATTGCTG TGGATGACAT 60
TAGTATTAAT AACCACATTT CACAAGAAGA TTGTGCAAAA CCAGCAGACC TGGATAAAAA 120
GAACCCAGAA ATTAAATTTG ATGAAACAGG GAGCACGCCA GGATACGAAG GTGAAGGAGA 180
AGGTGACAAG AACATCTCCA GGAAGCCAGG CAATGTGTTG AAGACCTTAG ACCCCATCCT 240
CATCACCATC ATAGCCATGA GTGCCCTGGG GGTCCCTCCTG GGGGCTGTCT GTGGGGTCGT 300
GCTGTACTGT GCCTGTTGGC ATAATGGGAT GTCAGAAAAGA AACTTGTCTG CCCTGGAGAA 360
CTATAACTTT GAAGTGTGG ATGGTGTGAA GTTGAAAAA GACAACTGA ATACACAGAG 420
TACTTATTCG GAGAGCATTC TCGAG 445

(2) INFORMATION FOR SEQ ID NO:1242:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242:

GAATTCGGCC TTCATGGCCT AATCATGCCT CTGCTTTTG TCACCTAATA CGTGACAGAC 60
TTCTTGCCAT ATGTGGAAAT AGATAACTCT TTCATTATTC TTAATAATGG ATATTTAGAT 120
GGCTTCCATT TGTCCTGTT ATTGTTGTAA CATATATTCT TGCATACATT TCCTTTCATA 180
CTTACTCAAT TATTAGCTGA ACTTTGGAGT AAAATCACTA AGTAAATACG TTTTAGGCTT 240
TTGCTATGTG TTACAAGATT TCCTGTCAGC AATTTAAGAT ACTTTTATTG CTCCTCACAG 300

CCTTGCCAGA ACTCATTGGG AACTCGAG

329

(2) INFORMATION FOR SEQ ID NO:1243:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243:

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GAATTCGGCC TTCATGGCCT AAAAATAGTA AATTCACGAG TTAGACGAGG      60
GAATTTAATT CCTATTTTGT CCATGTTGGT GATGTACTGT ACTTCCCTTC CTTTCTCTG      120
CATCCCCCAT CACCTCATAG AAGACTCTTT GTTGATCATT GTATGTTAAT AATGTATAAA      180
ATGGCTATCT TGTAAGCGTG CTGTCCTGGT ACTAGTGTAG CGACTTTTTT TCTCCTCTT      240
CTTCTAGTAC ATATTGATAG GTATAACATA ATTAAGGTTT AAAAAAATT AGACATAGTT      300
ATTGAGATT AGGACCAGTA AGGATAGAAC TTTCTCTTAT TTATGAAAAA AAATGCTAAT      360
AATTTTGGGG CAGTTTTTTC CTTAATTAT TTTTTCAT TCAAGTTTA ATTTTATTT      420
AGCTGATCTC GAG                                         433

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(2) INFORMATION FOR SEQ ID NO:1244:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1244:

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GAATTCGGCC TTCATGGCCT ACATGACTGA GTATATTACC TCTGTTTGAG AGAGAACCAT      60
TTTCTCAGA AATTCATATC CTACCGTTCT GCTGTTTTTC ATGATAATTG TTTTCTCCT      120
AACATTATAT TTCTGTCITT TAGATTTTAG TATTCACCT TTTAGAATAC ATTTGGATG      180
ATGAAGTTGT TTTTCTTATT TCTCCTACCC CCTTTCCTTC ATCTCAGACA TTATTTCCCA      240
GCTTTCTTTG TTTCAGCTTT TTATTATGAA AAATGTCAAA TGTGCAGAAA AATGGAAGA      300
ACAGTACAAC ACACCCCAA TCTCGAG                                         327

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(2) INFORMATION FOR SEQ ID NO:1245:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1245:

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GAATTCGGCC TTCATGGCCT ACTGAGAATC TTCACCATTA AACTTAGGAG TGTTCTACAA      60
AATAGTGCTT AGAACAGCTA TTGATACTCA AGAGGGCTGT TTAAGTAGCT AGAAAAGTCT      120
AACCTAAAT CCCATTGTG ATTAGATTAT GCACTGATGA AAAAATGTTT AATGCCGTTA      180
AAAAGAACTT ATTACATTAT ATTCTTCAG GCCATGGTAA AGTTACAAAT TTGAACCTCA      240
TAGGCTGTGT GTGTATTTGT ATGTGTGTAT TTTCTTTCT TTTATTGGCA GTCTCAATAA      300

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TTGTTAAGCC ACACACTGCA CAGTATACAC ACACACTGCA CACCACACAC ACACCACAGA	360
NTGCACACCA CACACAGCAC AACCACCCAC ACTCGAG	397

(2) INFORMATION FOR SEQ ID NO:1246:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 440 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246:

GAATTCGGCC TTCATGGCCT AGTGGGCAGA TCACCTGAAG TCAGGAGTTT GAGAACAACC	60
TGGCCAACAT GGTGAAACCC TGTCTCTACA AAAAATAAAA AAATTAGCCA GGGGTGAGGG	120
CAGGTGCCTG TAGTCTTAGC TACTTAGGAG GCTGAGGCGG GAGAATCACT GGAACCCACG	180
GGGCGGAGGT TGCAGTGAGC CGAGATCACA CCAGTGCACT CCACCCTGGG CGATAGAATG	240
GGACTTTTAA AAAAAAAAAA AAACGCCTCA CACGGTTTAA GGTGCTATTA ATACAGTAAG	300
AAACAAATAA ACAAAGCTCA TTGCCCTTGA TGGACTTTAA AAAATGATCC AAGTATATGC	360
TGTCTGTAAG AGATACACCC TAGACTCAAA GACACAAATA AGCAAATCAA AGGATGAAAA	420
AGATACACTA TATGCTCGAG	440

(2) INFORMATION FOR SEQ ID NO:1247:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 466 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247:

GAATTCGCCT TTNATGGCCT AGCCNAACAA AATGGCGGCG GCAGCGGTGT CGTTTTGTTT	60
CCGGGGNTCC TGCGGCGGTG GCAGTGGTAG CGCCCTTTGA GCTGTGGGGA GGTTCAGCA	120
GCAGCTACAG TGACGACTAA GACTCCAGTG CATTCTATC GTAACCGGGC GCGGGGGAGC	180
GCAGATCGGC GCCCAGCAAT CACAGAAGCC GACAAGGCGT TCAAGCGAAA ACATGACCGC	240
TGAGCCCATG AGTGAAAGCA AGTTGAATAC ATTGGTGAG AAGCTTCATG ACTTCCTTGC	300
ACACTCATCA GAAGAATTG AAGAAACAAG TTTTCCTCCA CGACTTGCAA TGAATCAAAA	360
CACAGGTAAA TTGAAAAGA ATGTGCTATA CTTCTAGTC TTTTCTCTAT TTTTCTTAA	420
CACCTATGGA GGTAACCAT TATTTTATTC AGAGAGCACA CTCGAG	466

(2) INFORMATION FOR SEQ ID NO:1248:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248:

TTTTGTTTTG TTTGTTTTG TTTTGGTAG AGTTGGAGTC TTGCTGTGTT GCCCAAGCTG	60
ATCTCCAATT CTGACCTCA AACAGGTCTC TCACCTTGGC CTCCCAAAGT GCTGGGAATT	120

CAGGGGTGAA CCACCTCACC CAGCCAAGAT CACATTTTGA ATCTAATTTT TTTTTTTTGA 180
 AACAGTGTCT CGAG 194

(2) INFORMATION FOR SEQ ID NO:1249:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 523 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249:

GAATTCGGCC TTCATGGCCT ACCTGTGCAA GAACATGAAA CATCTGTGGT TCTTCCTTCT 60
 CCTGGTGGCA GCTC~CAGAT GGGTCCTGTC CCAGGTGCAG CTGCAGGAGT CGGGCCCAGG 120
 ACTGGTGAAG CCTTCGGAGA CCCTGTCCCT CACTTGCACT GTCTCTGGTG GCTCCATCAG 180
 TGATCACTTC TGGACCTGGA TCCGGCAGCC CCCAGGGAGG ACGCTGGAGT CGCTTGCGTA 240
 TATTCATTAC AGTGGGATCA CCAACTACAA CCCCTCCCTC AAGAGTCGGG TCACCTTTTC 300
 AGTAGACACG TCCAAGAACC AGCTCTCCCT GAAGCTGAAG ACTGTGACCG CTGCGGACAC 360
 GGCCGTGTAT TACTGTGCGA GATTTAGTGG TTATTATACT AACCTTCCT ACTACTACTA 420
 CATGGACGTC TGGGGCAAAG GGACCACGGT CACCGTCTCC TCAGCCTCCA CCAAGGGCCC 480
 ATCGGTCTTC CCCCTGGCAC CCTCCTCAA GAGCACTCTC GAG 523

(2) INFORMATION FOR SEQ ID NO:1250:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250:

GCCAGAGGGA TGACCGGTGG CTGCTGGTGG CACTCCTGGT GCCAACGTGT GTCTTTTGG 60
 TGGTCCTGCT TGCACTGGGC ATCGTGACT GCACCCGCTG TGGCCCCCAT GCACCCAACA 120
 AGCGCATCAC TGACTGCTAT CGCTGGGTCA TCCATGCTGG GAGCAAGAGC CCAACAGAAC 180
 CCATACCCCT CGAG 194

(2) INFORMATION FOR SEQ ID NO:1251:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 503 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251:

GAATTCGGCC TTCATGGCCT AAGCCCACTG GCATCAGACA TGCTTTGCTG TAGTGTACAC 60
 TTCNTTTTTC NTTTTNTTT TTTTNTTTT CACACAGAGC CNGGNTCCGT CCCCCAGGCC 120
 TGACTGCAGC GGNANAATCC CACCCACNG CCACNTCCGC CACCCAGGCC CAAGCGGTTT 180
 CCTAACGGCT AATGATGTTG AACATCTCTT CATGGGGTTA CATGCCATCT TTATATCCTC 240
 TTCAGTGAAA TGTTCCTTAA CATCTTTTGC TGTTTTCTAA TTGGATTACT TGGGGTTTTT 300

TAATACTGAG TTTGGAGTTA TTTATATATT CTAGACAGTA GTCTTTATTG GATATGTGGT	360
TCAAAAATAT TTTCTCCAG TCTGTAGTTT GCCTTTTCAG CCTTTTAACA TGGTCTTTAG	420
CAGACCAAAA TGTTTTAGTT CTTATGAAGT CCAACTTACC AATTTTCCT TTTCTAGATC	480
ATACTTTTGG TGTCAAGTCT CAG	503

(2) INFORMATION FOR SEQ ID NO:1252:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 589 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252:

GAATTCGGGC TTCATGGCCT AATTGAATTC ATGATTGTGC TCTCTGCTTG CCTGTTGTTG	60
GTGTATAGGA ATGCTAGCAA TCTTTGCACA TTCATTTTAT ATCCTGGGTT TCAGTATTTT	120
AAAAACTTAC TTCAGGTGAT TCTATGTGTG CAACCATGAT TGAGATACAC TGTTATAGAA	180
TCTAGGATGT GATAAAGTAG AAGAACATAA CTAAAGTTTT GCATTTTTCG GGTGTCTCAG	240
TTTCCTCATT TATAGATGGA GTTGGTATGT GTACCAAGTT CATAGGCTTG TTCTGAGTAA	300
ATTAGTGCAT GTAAAGTGCT CCACAGAAATG TTAGCTGTTG TGATGCTTTA CTTTCCATTG	360
CACCTCCTGA CTCCTAGCCT TTCTTTTCCT TGGCTCTTTT TATGCTCATG TCAGATGCCT	420
CTATTGTTTC TTTCCCCCA GAATATCCTC CACTTTATCT TGCTCTGCTC AACATCTTTA	480
AAGTATAGAA TCAACAGACT GCCATGCCAC CCAGTCTGTC TGACAATTGA GGCAAATTC	540
CTAAGTCCTC TTGTTCTCT TCTGAGATT CCACCTGCTC TAACTCGAG	589

(2) INFORMATION FOR SEQ ID NO:1253:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 702 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253:

GAATTCGGCC TTCATGGCCT ACATTTATCG AGTCTTTAAT TAATGCCCTG GGTAAGTATA	60
AGGTTGGAAC TGTAATTGTC ACCATATTGA TGATGAGAAA CTTGAGAAAG GATAAGTGAC	120
TTGTCTAAAA TCACACAGTA AAACCTCAAA TCAAACCCAG GCCCTCTGGC TCCAGACTCT	180
AAATTATACT CTGAATGATA CTCACTGATT GTCCGAGGAC ACAAAGACTG TCGAGGCACT	240
ATCTGCTGGG TGTCTGCAGA ACCTTACTGT TCTAAAGCAA AACATTTTAC CCCTGGACAA	300
GAGCAGCAAA GGTGGCGTTC GGCCCTCCTT GGCTCTCATT TGACTGTTCA AAGCCAGGTG	360
CTTTTCTTTC TTGGGTCAGA ACGTATTTTC AGCAGCATTT TGAAGCACCC CTGGCGTGCA	420
CTGCACAGGG AAACCAGGAC CACATTGGTG TGCTGTGTCC TCCTTACCAA CTGGCTCTTG	480
GAGAAGGTGA GACAGAAGTA GCTGAGACTC CATTCCTGAG ATCTTCACTT AACAACTCCT	540
GCAGCTTGTG CAGAGCCTTA CTAGAAATAC TGAAGGCAGA AGTCCCTGGA AAATAGGGCC	600
CATAACTAAT TAGTAATTG TTTTGTAGTA ATTTCTTACC GTTATTGAG CACATTCTGC	660
AGTCCAGGCA TTTTGCTAAA CTCTTACATG GCAGGACTCG AG	702

(2) INFORMATION FOR SEQ ID NO:1254:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 554 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1254:

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GAATTCGGCC TTCATGGCCT AAGCAAGTAA ACACTGTATA TCTGTAATTG GAAAGTTGGT      60
GGGAAGATTA CTTTCCATT CTGTATGTGG CAGCCTTAAG TGCCATCACA GCTTGTCTG      120
TGGTTTGCTT TTTTTTTGC AGTGACCTCA GCTCACTGCA ACCTCCACCT CCCTGGTTCA      180
AGCAATTCCC CTTCTTCAGC CTCCAAGTA GCTGGGATTT CTGGTGCATG CTACCAGGCC      240
TGGCTAATTT TTTTGTAT TTTTAGTATA GACAGGGTTT CATCATGTTG GCCAGACTGG      300
CCTCAAACTC CTGACCTCAG GCAATCTGCC CACCTCAGCC TCCCAAAGTG CTGGGATTAT      360
AGGTGTGAGC CACTGCGCCC AGCCGACTTT CAAATTTTAA AACCACAGCC CAGTGTAAAC      420
CTGTGTGTAT GTGTGTGAGT GTGCTGTAT GTGTGTTGA AATAAAATTT TTCATGTGCT      480
TAAACATTCT GATTTTCTT TTATCAGAAC CACTAATGAG ATGAGACCAT AGTTTGTAAA      540
ACCTCATGCT CGAG

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(2) INFORMATION FOR SEQ ID NO:1255:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255:

```

GAATTCGGCC TTCATGGCCT AGCTCCGGCA CATGGCAGGC ACTCAGGGAA AGTATGTAGC      60
CTTATGAAGT GACTGATCTG AGGGAGGCAC TTTCTGTAAG CATAGTATTG GTCAGTGGCA      120
TGAGGCCACC TACTGGATCC CTGCCATCCA GCCTGGGAG TAGCATGAAG CAGCATGGCA      180
CTGGCCTTCT GGAAGCTTGG AGAGGAGTCT TACCCAAGCT TTGCTCCTAG ACATTAAACT      240
TCCCAGCTGG GCACTAACAT GTGGCTGCAG AACCTGCCCT TGCTCAGTCT GTCCCTGGTG      300
CAGCTGCTGG GAGAGCCTGC CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1256:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256:

```

GAATTCGGCC TTCATGGCCT ACATTAAGGC AGCTTTGTAA GTAAGTACAA AATATATTTT      60
AACCTACACA ATTTTATTA GTTCCCTCT CTTTGTAGAAG TACACCGACT CTAAAATGAA      120
TGAAAGTCTG ATTACTTGCC TTAGGTTGGG GGCTTTATCC AAGCTCTACT AAGTGAAGCT      180
AAAATAAAGG ACATTGTTGT ATATTGTATT TTAATGTATA CATTATTACC TCCTCAGCAA      240
AGTGAAACAT AGCTAAACT TGAGTATATA TTTCTTCAT TTCTCTCTT AGTTCCTTTT      300
TGGCATCTCA TGCTGAACAA ATCCAAAATA GATTATTAA TGCCTTCCCC CAACACAAAC      360
AAAACCAGAA GAGTCTTTCG CTTCTAGACC TGCCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1257:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257:

GAATTCGGCC	TTCATGGCCT	ACTGAGTACA	GGTTTGGGAT	CTACATACCC	AGATCAACAG	60
CATGTGGCAT	CACCTGGCCC	AGGTGAGCAT	GACCAGGTAT	ACCCAGATGC	AGCTCAGCAT	120
GGCCATGCTT	TCTCTCTCTT	TGACAGTCAT	GATTCAATGT	ATCCTGGTTA	TCGTGGCCCA	180
GGGTATCTAA	GTGCTGATCA	GCATGGCCAG	GAAGGTTTGG	ATCCAAATAG	AACACGAGCC	240
TCGGACCGAC	GTGGAATTCC	TGCCCAGAAG	GCCCCAGGCC	AAGATGTCAC	TCTTTTCAGG	300
AGTCCAGACT	CCGTCGACCG	AGTCTTATCA	GAAGGGAGCG	AAGTCTCGAG		350

(2) INFORMATION FOR SEQ ID NO:1258:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 335 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1258:

GAATTCGGCC	TTCATGGCCT	AATTGAATCG	AGCTGGTTAA	GTTTCACTAG	GAGGCGCNAA	60
AAAGGAGCCG	TTTTTGACTT	AACATTTTAA	TTCTAGTAGA	GATAAGAAGA	GCTTGTGTGG	120
GCTTACAGTC	CTTCACCTGA	CTGTCCCTCA	CCAGTGAGTA	GCATACCAGT	TCTTCAAATG	180
TCCTATACTT	TGGAAAGCAG	ACCCGACTCT	GGAGCACTCG	CCTTAATTAG	ATTCTGAATT	240
TCCTTGAATT	TTGGATGGTC	CTTATCAGCT	ACCAGCTGAA	GCAGAACAGC	CTCACTCGTG	300
GTCACTATGA	TCCCGGTTTC	AGCGAGACGC	TCGAG			335

(2) INFORMATION FOR SEQ ID NO:1259:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 621 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1259:

TCCAGTTGAA	TTTAATAGAA	TTCCGCCTTC	ATGGCCTAGC	CGACCGTTGA	CTATTCTCTA	60
CRAACCACAA	AGACATTGGA	ACACTATACC	TATTATTCGG	CGCATGAGCT	GGAGTCCTAG	120
GCACAGCTCT	AAGCCTCCTT	ATTTCGAGCCG	AGCTGGGCCA	GCCAGGCAAC	CTTCTAGGTA	180
ACGACCACAT	CTACAACGTT	ATCGTCACAG	CCCATGCATT	TGTAATAATC	TTCTTCATAG	240
TAATACCCAT	CATAATCGGA	GGCTTTGGCA	ACTGACTAGT	TCCCCTAATA	ATCGGTGCCC	300
CCGATATGGC	GTTTCCCCGC	TGCATGCTAG	TTATATTCT	CCAACATAGA	TTAAATACAT	360
ACATGACTAT	TAAAATCTCA	GGGTTCTTCT	ATGTGTCCCC	TAAAAGCATG	ATGTATGCCA	420
GTGGTCATCT	GTCCACCACC	ATTTGGGGAC	CACGGCATTT	AGGTAAAGTG	GGTCTCGGAT	480
GACCTCCTTC	AGCTTAACAG	CAGGAGTTGA	GATGGAGCCC	TTGCAATTTT	CCCCTGAAT	540
TCCAGAAGCA	AGGAGAAAGA	CTGAAGTGAC	AAGTACCGCA	AGACAGACTT	CAGGAACAAT	600
TCGTTTAAGC	TGCAGCTCGA	G				621

(2) INFORMATION FOR SEQ ID NO:1260:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 322 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1260:

```
GTTTTGTGAT TCTCCAGGAC AGATGATGAA AAACAGTGTA GATAGTGTC AAAATTCCAC      60
TGTAGCCATA AAATCTCGAC CTGTTTCAAG AGTTACCAAT GGAAGTTCCA ATAAAAAAG      120
TATTCATGAA CAAGACACTA ATGTAAATAA CAGTGTTACTA AAGAAAGTCA GTGGCAAAGG      180
ATGTAGTGAG CCAGTACCAC AGGCAATTTT GAAGAAAAGA GGAAGTAGCA ATGGATGTAC      240
TGCAGCTCAG CAGAGGACAA AGAGTACCCC ATCTAATCTT ACTAAACTC AAGGATCCCA      300
AGGAGAGTCA CCAATACTCG AG                                     322
```

(2) INFORMATION FOR SEQ ID NO:1261:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 276 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261:

```
GCCCTCATGA CTCGGATCCA ACCTGCCTCG CAGGGAGTCG AGCTCTCCGG CCTCTCAGCC      60
GCCATCAGCC ACTTCCTGAA CTGCTTCCTG AGCTCCTACC CAAACCCCGT GGCCCACTG      120
CCCCCGCAGC AGCTGGTCTC CAAGAAGCGG AATAAGAGGA GGAAAAACCG GCCCCCGGG      180
GCTGCAGATA ACACAGCCTG GGCTGTCATG ACCCCCAGG AGCTCTGGAA GAACATCTGC      240
CAGGAGGCCA AGAACTACTT TGAATTGCAC CTCGAG                                     276
```

(2) INFORMATION FOR SEQ ID NO:1262:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 292 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262:

```
GAATTCGGCC TTCATGGCCT ACAAAGAAAG CAAGCCACAA ACAATAATGA AGCAAAAAAT      60
GGAATCTAAG AATCTTTTGG TATGGAATAT TACTTCTATC AGAAGATGAT CAAGATGTTT      120
CAGTCCAGTG CACATCAGCA TTGCTGACAT TTTATGGATT CTAAACTTGT GTTGTCTTCTT      180
TTTTAAATCA ACTTTTAAAA AAAATAAAGT GTAAATTAAC CGACTAGAGT ACTTGAAAAA      240
TGTGATCAGT ACAAGTGAAC TTAGGTTGTT GCCAACAGGG TCCGTACTCG AG                                     292
```

(2) INFORMATION FOR SEQ ID NO:1263:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 439 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263:

GCGATTGAAT TCTAGACCTG CCTTGATGCC AACTAAGGAA ATTTGTTTAG CATTGAATCT	60
CTGAAGGCTC TATGAAAGGA ATAGCATGAT GTGCTGTTAG AATCAGATGT TACTGCTAAA	120
ATTTACATGT TGTGATGTAA ATTGTGTAGA AAACCATTAA ATCATTCAAA ATAATAAACT	180
ATTTTATTA GAGAATGTAT ACTTTTAGAA AGCTGTCTCC TTATTTAAAT AAAATAGTGT	240
TTGTCTGTAG TTCAGTGTTG GGGCAATCTT GGGGGGATT CTTCTCTAAT CTTTCAGAAA	300
CTTTGTCTGC GAACACTCTT TAATGGACCA GATCAGGATT TGAGCGGAAG AACGAATGTA	360
ACTTTAAGGC AGGAAAGACA AATTTTATTC TTCATAAAGT GATGAGCATA TAATAATTCC	420
AGGCAAATGG CAACTCGAG	439

(2) INFORMATION FOR SEQ ID NO:1264:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 486 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1264:

GAATTCGGCC TTCATGGCCT AGGGGAGGCC GCGNGGGGA AAATGGCGGA CGGAAGGCG	60
GGAGACGAGA AGCCTGAAAA GTCGCAGCGA GCTGGAGCCG CCGGAGGTGA ACACAACCCC	120
AGCGTCGTGG GCAGCGTGGG ATGCTCCGGG CTTTCTTTG AGCTCCCAAG GTGGGGGAG	180
TGGGGTGGGG CGAAAAATGGG CGGATCTGGA CCTCACCCGG ACAGGTGTTG GGCCAGACC	240
TGCCCTCCGGG CNGGCCCGGA TCGGGCCCTC CTGGGCTCCG GGCCTACATC GCCTCCTTGC	300
CTGGGGAGAG CCGGCCACTG TTCGTCACCT CCTGGCCCCA GCGGAGGCC TGATTCCGAG	360
GAGAAGGGAG ATGGGCGCCA GAAAGGGAGA CCGAACTCGG GGTGGGACCA GGAGCGGCGG	420
TGCAGGAGCC GCTACCGCCA CACCGGAGAC GCACATCACA CAAAACACAC ACACCGGATT	480
CTCGAG	486

(2) INFORMATION FOR SEQ ID NO:1265:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1265:

GAATTCGGCC AAAGAGGCCT AATTTATTGT TGGATCAATC AAAATTTTCA TCACTTAAAA	60
GAACCATGTC TATTAAAGAA TCTAGCTCAC TGGAGTGCAT TGCCATTCCA AAAAAAGAAGA	120
TGAATTTAAA AGATAAAGC CATGAAGGTG TTGCTTGTGT CCAGAAAGAA AAATCAGTAG	180
TTAAACCTG GTTCTGTGAA TGCAATCAGC GATTCCCAAG TGAAGATGCA GTAGAAAAGC	240
ATGTTTCTC AGCAACACA ATGGGTTATA AATGTGTGGT CTGTGGAAAG GTATGTGATG	300
ATTCAGGGGT TCTCGAG	317

(2) INFORMATION FOR SEQ ID NO:1266:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 479 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266:

```
GAATTCGGCC AAAGAGGCCT AATCTTTTCC TTTCTTGTA GTTAGAAGAA ATAACCTCTT      60
CAGTTAAACC TTCAGTGAAG GTTCTTTTTC TTTCTGTTC TGCTTTCTAA AACATAGAC      120
TCTGTTCTTT AGAGCAACTT ATGACTCTCA TCTCTGCTGC ACGAGAATAT GAGATAGAGT      180
TCATCTATGC GATCTCACCT GGATTGGATA TCACCTTTTC TAACCCCAAG GAAGTATCCA      240
CATTGAAACG TAAATTGGAC CAGGTAACCT CTTACTTTTT ATTCATTTTT CCTGACTATG      300
TACTTGAAAC TAGAAGTTTA CTCAGTTGCT TTTACGATGT TAAAAGGAAA TCAAATTCCT      360
ATTTCTTTGT TTTCTTTTTT TGTGTGTTG TTTTGTTTT TGAGACAGAG TCTTGCTCTG      420
CACTCCAGCC TTGGGCAACA GAGCAAGGCT CTCAAATAA AAAAGCAGCG ACACTCGAG      479
```

(2) INFORMATION FOR SEQ ID NO:1267:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 615 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

```
GAATTCGGCC AAAGAGGCCT AGGGTTTATG CCAACAAAAG GAGAGGGAGC CATAGGTTCT      60
CTAGATAACA CTCCTGAGGA AAGAAGAGCA CTGCCCCAAA AATCACAAGA TTTCTGTTGT      120
GAAGGATGTG GCTCTGCCAT GAAGGATGTC CTGTTGCCTT TAAAATCTGG AAGCGATTCA      180
AGCCAAGCTG ACCAAGAAGC CANAGAACTG GCTAGGCAAA TAAGCTTTAA GGCAGAAGTC      240
AATTCATCTG GAAACACTAT CTCTGAGTCA GACTTAAACC ACTCTTTTTC ACTAACTGAT      300
TTACAAGATG ATATACCTAC AACATTCCAG GGTGCTACGG CCAGTACATC GTACGGACTC      360
CAGAATTCCT CAGCAGCATC CTTTCATCAA CCTACCCAAC CTGTAGCTAA GAATACCTCC      420
ATGAGCCCTC GACAGCGCCG GGCCAGCAG CAGAGTCAGA GAAGGTTGTC TACTTCACCA      480
GTGTAATCC AGGGCCACCA GCCAAGAGAC AACCACACTG ATCATGGTGG GTCAGCTGTA      540
CTGATTGTCA TCCTGACTTT GGCATTGGCA GCTCTTATAT TCCGACGAAT ATATCTGGCA      600
AACGAATACC TCGAG                                     615
```

(2) INFORMATION FOR SEQ ID NO:1268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

```
GAATTCGGCC AAAGAGGCCT ACAGAACTTT TGTCAAATGG AGTGTTACCC ACAGTCAGAA      60
TCTAGCCACC AAAATGGGAA GGGAGTGNAG CTGCCCTGTC CACAGGCTTC TCTATGGGAA      120
ANGCTGCTGT TCTGTAAAC ATGNTGGGGC NGGCTGTGGG GANGAAGGCA TTTTCTGGAC      180
CACATGNACG AATTCGAATT GGGGGACGGT CCTACCCAG TGAGGAAGCT GAAAGAAATG      240
GGCCTGATTT GGTGCAGGAC ANCCCTGAA GACCGTGAGG CCCCTGGCCT CTGCCGCGAG      300
```

TGGGAGCCTC AGCAGCANGG TTTAGGGCAG CACCCAGGGC ATCCTTGCCA CGTGAGGCTG	360
CCGTTGGTGC CTGGGCATCA GTAGCTCAGG CTGGAATAAT TGGAAAGGAA AAGGCAGGAG	420
GANCCCCCTGA GGCCAGGCCA TTGGGCTGGG GAGCTGTAA GCTGAGGTGG CCCTAGGGCC	480
TGCCGGGGCT GGGGGTGGCA AGCCAACTC TCGAG	515

(2) INFORMATION FOR SEQ ID NO:1269:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

GAATTCGGCC AAAGAGGCCT AGTGCAACTG ATCTGTCCAG TTTGTGTATG AAATGGATTT	60
GATAAAGTTT TTGCTAGTTA TTTACTACAT TTTGGGATTA ATAAGTGATT TATATGCATA	120
TTTTTCTGTA AATCTACAGT TTTTGTACA AGATATTCTA CAAGTTATGA AGCTAAGGGA	180
AGAAAATGCC AAAGATACCT CTAGTTATGT TGAACACAGC CAGCTCGAG	229

(2) INFORMATION FOR SEQ ID NO:1270:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

GAATTCGGCC AAAGAGGCCT AGTATGCCCT TAAATCTGGT TATTAGGTAA TTCTTTTCCG	60
AGTAGGAGCC CAGATCAACT CACAGTGTTT CTGAGTCCTG GGAGATTGAA TTCTAGACCC	120
GCCTCGAG	128

(2) INFORMATION FOR SEQ ID NO:1271:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

GAATTCGGCC AAAGAGGCCT ATTTAGCACA AATTTCTTTT TGCTTGCCTT TTCAGATTTT	60
AAAACATATTA GAGAAAAACA TACTTGATTG CTAAAATTG TCAAACATAA ATAGTAGACA	120
CAATTTAGTA ATAATCATAT TAATAATCAT AATCATTAAT ACTCATAATA ATCANACAGA	180
GGACGCCCTA AAATGTACAC TGATTAAATT TTATTTTTTT CCCATGCATA GCTAGCCTGT	240
TTGTACAACCT TTACTTTTGC TGCTGCATGT AACCAGATGA TTTTTTAATC AGATTACTGC	300
CTTTCTGATT TATTTAGAAT TTTTCTTCTT TTTTCTTTT AAGAGACGGG ATCTTATTCT	360
GTGCTCAGG CTGGGGTGCA GTGATGTGAT CCTAGCTTAC TGTATTCTCG AG	412

(2) INFORMATION FOR SEQ ID NO:1272:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 480 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

```
GAATTCGGCC AAAGAGGCCT AGTTTTAAAG GACAGGTTTA AATAGGCTTA CTTTTTCTT      60
TTAAGTTCAG ATACCTAAGC CTTATGTCCC TAGCCGCAGT TTTCAGATAT TGCAGCTAA      120
TTAATTCTTA GGAAATCTAA TCTGAATTGA ATTAATTTTC CCTTTTAGGG CACACGAAGC      180
AACTTTTAGG TAAGAAAAAA AATGAAAACA GCTTTTGTTC CACATAATTC TTGCAACTAA      240
TGAAAAGTAA TATTGCTGTT CCCTTCAAAT AATGCAATAA CAAAACACCA AATGAGAGCA      300
TTGCATTGTA TTGTTATATT TGCTGTTTAA ATAATTTAGC TGCAAAAATC TGAGGGCTGC      360
TTTAGCTGTA ATTAATATT CATTAAATGAC ATGCTAATTG CACAATACCT TTGAATATTT      420
AACAAAATGC AAAAACCAGG CTCTGAAGTT ATGTTTTTAG TGCAAGGGGG ACACCTCGAG      480
```

(2) INFORMATION FOR SEQ ID NO:1273:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 293 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

```
GAATTCGGCC AAAGAGGCCT AAGACCAGCC TGGGTGACAG AGCGAGACTC CGTCTCAAAA      60
AAAAAATTGA ATGAAGCAGA AATTATTCTT TTTAAGCCCA TTTAGCTGTT ACACACATAG      120
TTATAGCATA TTCTCTCTTG AGATAACTTG CTTTTAATTG GAAAATAAT TCATTAAATA      180
TCCAACTCT ATATCATTTT TGGATAAGT GATTTTAGCA ATTTTGATA CTTATTCTAA      240
CATGATGCAT ATATTGAGTA TGTACTTTTC TTAAATGCA GGCAATACTC GAG              293
```

(2) INFORMATION FOR SEQ ID NO:1274:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 194 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

```
GAATTCGGCC AAAGAGGCCT ACCGCTTTT TTTTTTTTT TGATAAAGAG AAGCCACCAC      60
CAGGAGGAGG CTTGAAAGCT TGAATTTAAT TACTCCTCCA TCTCCTCATT ATTCCACCA      120
ACTCCCTACT TCCCATCTC ATTTACAGAG CTCCACCAGC TCTCCCTCA GGCCTCCTAG      180
ACATCGCGCT CGAG              194
```

(2) INFORMATION FOR SEQ ID NO:1275:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 164 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

```
GAATTCGGCC AAAGAGGCCT AAGAAGAAGA AAGAAAAATT GGAGAGAAAA AAGGAGTCTT    60
TAAAAGTTAA AAAGGGTAAA AATTCAATTG ATGCAAGTGA AGAGAAGCCA GTTATGAGGA    120
AAAAAAGAGG AAGAGAAGAT GAATCATACA ATATTCAGA GGTC                      164
```

(2) INFORMATION FOR SEQ ID NO:1276:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 465 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

```
GAATTCGGCC AAAGAGGCCT ATTTGGATGG CAACGAGCTC ACCCTGGCTG ACTGCAACCT    60
GTTGCCAAAG TTACACATAG TACAGGTGGT GTGTAAGAAG TACCGGGGAT TCACCATCCC    120
CGAGGCCTTC CGGGGAGTGC ATCGGTACTT GAGCAATGCC TACGCCCGGG AAGAATTCGC    180
TTCCACCTGT CCAGATGATG AGGAGATCGA GCTCGCCTAT GAGCAAGTGG CAAAGGCCCT    240
CAAATAAGCC CTCCTGGGA CTCCTCAAC CCCCTCCATT TTCTCCACAA AGGCCCTGGT    300
GGTTTCCACA TTGCTACCCA ATGGACACAC TCCAAAATGG CCAGTGGGCA GGGAAATCCTG    360
GAGCACTTGT TCCGGGATGG TGTGGTGGAA GAGGGGATGA GGGAAAGAAA TGGGGGGCCT    420
GGGTCAGATT TTTATTGTGG GGTGGGATGA GTAGGACAAC TCGAG                      465
```

(2) INFORMATION FOR SEQ ID NO:1277:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 302 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

```
GAATTCGGCC AAAGAGGCCT AACTGTGGTT CTTACATCCT AACAAAAGCT GCCCTCCCCG    60
CACATTCTTT TGTATGTTCC TTAAGCTTAA AGATGAATAG ATGCTTAAAG TATGCAACTA    120
TGGCATTGAG AGTGCAAGAC AACTTGAAAA AGAGTGTGAA AACATTGTCA GATATAAAGT    180
TACTTCAATT CTTTGGAGTC TGTTTCTGT CATGCTTAGA TGTTTGAAT CTTAAAGTTA    240
CAGAGGAAC TTTCTCTGGT AACAAAGACAT GTCTGAGTTT GTGGACTGCA CGCGATCTCG    300
AG                                                                302
```

(2) INFORMATION FOR SEQ ID NO:1278:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 401 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

```
GAATTCGGCC AAAGAGGCCT ATAGGCCTCT TTGGCCGGGT TAGCCTAAAG GAGAAAAAAG      60
CAAGGCTCAA GAGAAATTAG ACAGCAGCTT TCAAATATTT TTAGAGAAGT AGGTTAATTA      120
TGGTACTCAT TCAACAAGGT AGAAATCATA CCAAGCATGA AGTCACAGGA ATGTCCCAGG      180
AGTGTGCAAC CATTGGAAGT GTCCATAGTA AAATGGGCCA GCTTGAGCAA TAAAGTCTC      240
CTAGTACCAG GAAATGCTTA GAGGTTGGGG AAAGTGAAAA AAAGGGGGAA AGTTTGGTCA      300
GGTTGGGGAG CAGTCACACT TCTTCCTGAG AGGTAGTAAA TACCAGGCTC TCCATCTGGA      360
GGAGGGGTCA GTAAATCACG TTTGCAAAGG AATATCTCGA G                        401
```

(2) INFORMATION FOR SEQ ID NO:1279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

```
GAATTCGGCC AAAGAGGCCT ACCCACCCCT ACTCCTCAAC ACTTCTGGTT TGCCCTGACT      60
TCTCTACGGC TCTGGCTTCT TCCCGAAGAG ATATAGGAGC CATGTAAGCA CGCAGTGGGT      120
GAACTGCTTA ATTTCACTAC ATGTTGATGT ACTTGCTTTC CGTCCTGTAG GTCTTTTCTA      180
TATAACTTTA TGCCACCCCT AAATGAATCA TTGGGTATAC CTGTCATGTT GGATCCTGTA      240
ATCACAGTTT TCCCTGCTCA CCTTTTGTG TAAGATCTAT TGAGAAAGGG AAATATGGGA      300
AGGAGAACCA TTTGATCAGA ATACAACCA TAGTCTTTAA GCATTGTAA AGTATGAAAC      360
TGAAATACAT TCAAAACACT TTACACTCGA G                        391
```

(2) INFORMATION FOR SEQ ID NO:1280:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

```
GAATTCGGCC AAAGAGGCCT AGGACTCCAC ACTCCCCAGA TCCCAGTATG ACTACATCTT      60
GCCTCAAGTT TCTTTCACCG CAGTGGGCTA CCATAAACAC ATCACCTTGA TTTTAAATCC      120
CAGCAGGAAG CTGCTGAAC AGGACATCGC ACAAGGATCC TACATTGCCC TGCCATTGAC      180
GCTGCTGTT CTGCTGGCCG GTTACAACCA TGACAAGCTC ATTCCTTTGC TGCTGCAGTT      240
GACAAGCCGG CTACAGGGAG TCCGCGCGCT CGGCCAGGCA GCCTCTGACA ATAGCGGCCC      300
AGAAGATGCA AAGAGACAAC CTCGAG                        326
```

(2) INFORMATION FOR SEQ ID NO:1281:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

GAATTCGGCC AAAGAGGCCT ACAGATGCAG ACACGGTGTC CGACGAGTAT TCTGACGAGG	60
AGGTGGTGGA GGACGTGGAT GATGCCGCCT ACTCCATGGT CAGTGCCTCC CATGTGACCG	120
CCCGCACCTG GGCCGCTGTC CGTCTAGCGC TCTAACAGTC TTACACCTTG GCTTTCTCTG	180
TCCCTTGAAA GAATTAACCTA TATCTACTGT GGACTGTTTC ATAAAACCAA CCTATGGTGT	240
TGCCGGGCAC AGAACAAAGC TGTCTTTCAC TACTGAAGGG ATGATTGGGT TTCTATATCA	300
TAATTACTTT TAGCTTCAGA ACAGACCCTT GTTCAAACAT CTCATGATCT TCGCTAACCA	360
TCTCGAG	367

(2) INFORMATION FOR SEQ ID NO:1282:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 560 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

GAATTCGGCC AAAGAGGCCT AAGAGAAGTG TCAGCCTCAC CTGATTTTTA TTAGTAATGA	60
GGACTTGCCCT CAACTCCCTC TTTCTGGAGT GAAGCATCCG AAGGAATGCT TGAAGTACCC	120
CTGGGCTTCT CTTAACATTT AAGCAAGCTG TTTTATAGC AGCTCTTAAT AATAAAGCCC	180
AAATCTCAAG CGGTGCTTGA AGGGGAGGGA AAGGGGGAAA GCGGGCAACC ACTTTTCCT	240
AGCTTTTCCA GAAGCCTGTT AAAAGCAAGG TCTCCCCACA AGCAACTTCT CTGCCACATC	300
GCCACCCCGT GCCTTTTGAT CTAGCACAGA CCCTTCACCC CTCACCTCGA TGCAGCCAGT	360
AGCTTGATC CTTGTGGGCA TGATCCATAA TCGGTTTCAA GGTAACGATG GTGTCGAGGT	420
CTTTGGTGGG TTGAACATG TTAGAAAAGG CCATTAAATT GCCTGCAAAT TGTTAACAGA	480
AGGGTATTAA AACCACAGCT AAGTAGCTCT ATTATAATAC TTATCCAGTG ACTAAAACCA	540
ACTTAAACCA GTAACCTCGAG	560

(2) INFORMATION FOR SEQ ID NO:1283:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283:

GAATTCGGCC AAAGAGGCCT ATTTTCATCA ATAGTAAGTT TTTATTGTCT GCTAATTTGG	60
TAGATAAGTT GAGACATCTC ATTGTTACTT TAATTTGCAT TTTCTCCACA TTAGAAAATA	120
TTTTCATTGG TTTATTGACC ATTTGCATTT CTCTTCTATA AATTGACTTT TTATATTTAT	180
TTGTCTCTAT TTCTGTATTC TGTGATAGT CAATTTATAG GAACCTTCTG ACAGATATGC	240
ATATTCATTT TATGTGTGAG TTATTTTGT GGCACCTACT CGAG	284

(2) INFORMATION FOR SEQ ID NO:1284:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284:

```

GAATTCGGCC AAAGAGGCCT ACTTCGGTTG CGGGATTCCT CCTCTGCCTG GGTCATTCTT      60
TCTCGTGTC TCTGATACGA GTCGTTTGTT GCACACACTG TAATTTTATC TTGTATAAAT      120
CCCAGGCAAT TGAGCTGGGA GGCTCCAGAG CTGGAGAATG TTTGCTGGAT GCAGTCAAAG      180
CTGCCCTGAG GGTGTGCTTT GCCCACATT GACAAATAAA AGTTAAAGTT ATGAACTTCA      240
TTGACGGGAT CATTTTGGG AATTTTGACA AGCCCGTGA GTCCTTGGAA CTGGATTGAA      300
GGTCGAAAAG GAATTAAATT CTTGTGGCTC TGGTAAGTCT CGAG                        344

```

(2) INFORMATION FOR SEQ ID NO:1285:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 586 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:

```

GAATTCGGCC AAAGAGGCCT AGGGAATTTG TTTTGCATA GGGGAATAGG TAAACCAAAA      60
GTGGTATTAA AAGCAGTGCT ATAGTAAAG GAGATTTTTT TAACTCCAC AATAAAAAGT      120
TTAGGCCCAA TTTCATAGTA AACTATTCT AATTAAGGAT TGAACATATT ATCACTTGCC      180
TTGATTTTGA CCACTGACAT TTTTGGCTT CTTCAATTCA CTTGTGACCA TCTGAATGCT      240
TTCTATTGG CTCTTAAATG CCCGATTTT ATTGACATTG GTGGCGAATC CCTATTCTA      300
CACAGACAAA GCATCTGACT TTGTCCAAGA AGCAAGCATG CTGCAGGCCA CTATGACGAA      360
GCAAGAAGCC GATGACATGA GCATCCCAT CTCCACATT GACGATGTT TCGACATGGT      420
GGATGTCCTG GTGGAGGGCA GTGAAGGCTT GGATGAGGAA ATAGGGTTCA CGTTGAGTGA      480
AGACATGATC CTGCTCACGT TCCCATTGAG TCGGGTAGTC CCTGCGGCC TGGGAAGCCAG      540
GAATAAGTTG CTCCTTGGGA CAGGCAATGA AGCAGATACC CTCGAG                        586

```

(2) INFORMATION FOR SEQ ID NO:1286:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:

```

GAATTCGGCC AAAGAGGCCT AGTTGAACAT AACTTGTAAGT GTGAATATGG TTAACAACAA      60
GGACACCTGA TGTCTGTGAA GTCTGCTAAG GACAGGTACA AAATTTATGC ATTGCTTTTT      120
AAAAAGTTTA AAATGAGGAA TGCTTTTGAT AATCAGAAAG ACTAATGTAA AGTGCTGACT      180
GATGTCCTGT CTGCAGTTAA GGAAGACACC CAACTCTCTT CTTCTCATC ATGGTATTCT      240
CTATGTATAG ATCTCTAAAA ATGCAAACTT CCTATGGACA AGACAATATG ATTTGCTATA      300
ATATGAATTA AGATATGGTA ATATCTAATA GTCTCCACTG CTAGGATTCT GAGTAACACA      360
AAAAATAGGT TTTATAAAAA GCCCATGCAC TTCAATTGGT GGGGAAAAG AATAAAGTCA      420
TTTTCAGTCG ACTGACTCTG TAAAACAGAT TACCAATATA ACAAGCTATG TTATCTAAAT      480
TGCCCTGGCT ACTCGAG                        497

```

(2) INFORMATION FOR SEQ ID NO:1287:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 329 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:

```
GAATTCGGCC AAAGAGGCCT ACAGGAGTTC ATTTTCATCC AAAACAAACA CTGGACTTCC      60
TGCGGAGTGA CATGGCTAAT TCCAAAATCA CAGAAGAGGT GAAAAGGAGT ATAGTAAAAC      120
AGTATCTAGA TTCAAACCT CTCATGGAAC ATCTGGACCC TGATGAAGAA GAAGAAGAAG      180
GGGAGGTTTC AGCTAGCACA AATGCTCGGA ACAAAGCAAT TACCTCACTG CTTGGAGGAG      240
GCAGCCCTAA AAATAATACA GCAGCAGAGA CAGAAGATGA TGAAAGTGAT GGGGAGGATA      300
GAGGAGGAGG CACTCCCGGG GAACTCGAG      329
```

(2) INFORMATION FOR SEQ ID NO:1288:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 459 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:

```
GAATTCGGCC AAAGAGGCCT ATGCATCGCG GGAGGCGCAT GGCGGGGATG GCGCTGGCGC      60
GGGCCTGGAA GCAGATGTCC TGGTTCTACT ACCAGTACCT GCTGGTCACG GCGCTCTACA      120
TGCTGGAGCC CTGGGAGCGG ACGGTGTTCA ATTCCATCCT GGTTCCTATT GTGGGGATGG      180
CACTATACAC AGGATACGTC TTCATGCCCC AGCACATCAT GGCGATATTG CACTACTTTG      240
AAATCGTACA ATGACCAAGA TGCGACCAGG ATCAGAGGTT CCTTGGGGAA GACCCACCCCT      300
ACGAAGTTGG AATGAGACCA TCAGATGTGA TAAGAAACTC TTCTAGATGT CAACATAACC      360
AACCTTATAA AGACTAAAAT TCATGAGTAG AACAGGAAAA TCATCCTGAC TCATGTGTGTG      420
TGTCTTTTAT TTTTAATTTT CAAAGAGGCT CAGCTCGAG      459
```

(2) INFORMATION FOR SEQ ID NO:1289:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 333 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:

```
GAATTCGGCC AAAGAGGCCT ACTACCTGCC TGAAATTCAA TGCCGTGTTC CTTCTGGACC      60
AGTTTAAAGC CATCTCTTCT GTTGTTCCTT TCCTCCCAA GATGTAGACT TTCCACTTA      120
AAAGCATTTT CAAGATTCTA TTTTTCATC CTTTTTCTG TCCTATTCT CTTCACTCC      180
CCACACTTGT TCCTAGCCTG TCTCTGTTGC TCTGATGTCC ATGTTGATGG TGGCGGTCTT      240
CAACCATGCC ATCCGTGTGC CAACCCAGCA CTTTCCTGCC ATCCCTGTAG CCCTTGCCCC      300
AACATCTGTG CATTTGACTC CCCACCACTC GAG      333
```

(2) INFORMATION FOR SEQ ID NO:1290:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 326 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:

```
GAATTCGGCC AAAGAGGCCT ATCCACCCGC CTCAGCCTCC CAAAGTGTTG GGATTGCAGG      60
TGTGAGCCAC TGC GCCTGGC CTAAACAAAC TTTTGAAAA GCTGTTTCTA AAAGATTCCT      120
TAAATTCAGA TATGACAGCT AATTACCTCA TCATAAATTA CTTTATACT AATTGTTTCC      180
AGGGTTTTAG AGTAGTTGAA TGTATTATTC ACAAGGCACC CTAAATTCTA TAGAAATAAA      240
ACCTCAGATG AGTCTCCTTC TTAGAGTGTT ACAATGAATG GGAGTTTACA ACTTTTATGT      300
GTCATGTTTC CAACAGCTAT CTCGAG                                     326
```

(2) INFORMATION FOR SEQ ID NO:1291:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 281 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:

```
GAATTCGGCC AAAGAGGCCT ATTGAATTCT AGACCTGCTG CTTCTGCTC GTCCAGTACA      60
TTGGCTTTGA AATATACTTG AATTGTGGA GGCAGGGTGT AGAATGACAA AAACAAACAA      120
AAACCCCAACA ATACAGACCA AATTGGGGTA CACACGGACA GATTGGTTTT AATTTTATTT      180
TAATTTTGA GTTTCTATGA GAAGAAGAAT GAGGAGAGAC AAAAAAGGGG AAGAGTGAGA      240
GATAGTATAT TTAGGGTATG ACAAATCAGG GATGGCTCGA G                                     281
```

(2) INFORMATION FOR SEQ ID NO:1292:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 367 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

```
GAATTCGGCC AAAGAGGCCT AATTAACTA AATCTTAGGG ACTTAGGGAT TTAACTAAA      60
TCCCCACCAC ATCTGATTTC CCCTTCCTCG AAATACCAAT AGTACGTGCA ACACAGACTT      120
GTAGCTCAGA GGTTCGATGC TGTTCAAAT TCTTGGGATA TGCATGTTAC TTTTITTTAA      180
AGAAGTGGTA TATCAGACAC CTGAAGGTCA AGTCTCTCTG TGCCACCAAC AAACCTCTCGT      240
GACCTTGAGC CCCTCCTCTC AATTCCTCTT CGGTAAGAAGA AATACCTCAC AGTGGCTGTG      300
CAATCACCAA ATAGGAACTA CAGGTGGCAT TATTTATCTT TTGCCCTTGT GTAAGAAAAG      360
ACTCGAG                                     367
```

(2) INFORMATION FOR SEQ ID NO:1293:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 234 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

GAATTCGGCC AAAGAGGCCT AGGATATTTT AAATTTTGTT AATTTTGTTC CGTGGTCTCT	60
GCCTGAATAG ACAGGCACTT GCCTGGAACG TAATACTGTT TCACTGCCTC GTTTTACCT	120
GTTTAATCTA GAACCAAAT GTGTCAATGT GTCAGCCCGT TTGTGCTTTT ATAACAAAT	180
ACTACAGACA GTAATTTATA AAGAATAGAT ATTTATTTCT TCACAGTTCT CGAG	234

(2) INFORMATION FOR SEQ ID NO:1294:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 562 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

GAATTCGGCC AAAGAGGCCT ATACTGATCC TCTCCCCTTG TGCATCACTT TTTCACTGCA	60
GATATCTTGT AGCTCCGTGT CTAGAGGTAG CCAAGGTATC CTCCTAGCTT GCCTTCTTGG	120
TTTTATACAT GCTTCAGTAT GTAAGACAGC TTGTAGTCCA AACTCATGAG ATGACTATTC	180
TGCCTGCCCC ATCTTACCTC AACAAGTGAG CCTGCATGCA TGTGCTCCTC AGTCTAGTCC	240
CAGGATAGGA GGTAGGGGTC TCACATCGAC CTCAAAGTCA TATGACTTTT TCTAACTCAC	300
CTTTACCACA CAGCCCCTAC TGTGGGGCTT ATAAAGTGTC ATGGAGATTT GTGAAGTCAA	360
TGTTTCCTTT CCTTGTTTAT GTGCTTTATA AATTAGGTCC CTCTCCAAAA CTTTTCATC	420
ATCCTAAACT GAAACACTAT GCCCATGAAG AAGTCATTAA ATAAAGACT GATAAATTTG	480
ACTCCATAAA AATTAAATTT TTCTATATAG GAAAAATGC CTCAAAGTCA AAAGTCAATC	540
ACCAAACCTGG GAGTTACTCG AG	562

(2) INFORMATION FOR SEQ ID NO:1295:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 322 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

GAATTCGGCC AAAGAGGCCT AGACACCCGT CATTGCAATT TATATTTTAA CAAAGGCTTC	60
TGATCCTAAT TTCAGGAAAT AGCCTCTAAA CTCATCTATT AGTCCCAAAT TCTTTACCCA	120
TTAAATCTGC TATTTTATGC CTCCTATATT CTTACCTTCA GATGTTGAGA GGTGGGGCA	180
TAAAACTTTG CAGCACGTCT GCAGTCTTCC CTCTAGAGTG AACTTGATCC TGCTGTTTGT	240
TCTTTTATT CTCTTCAAAG TTAAATCATA TTCCAGCATT CATGGTATTT CTCCAGCTTG	300
TCCTCCACAC TCACCCCTCG AG	322

(2) INFORMATION FOR SEQ ID NO:1296:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

GAATTCGGCC AAAGAGGCCT AAGCTGTTTCG GGTACTTGTC AAAAATGGCT TCCAAATATA	60
TTCCTTTTAA TACAGGATGT GAAACACTT CCTAATAAAT TCCTGCAAAA TTAGATGATA	120
CTGTATGTAC TTCTGAAGGA CAGACAAGAA AGTAACCTAA GACCAAAACA ATAGAGGTCT	180
CCTACTACTG GGGAGAAGGA GGATTATCAA GAATAGAGGA AAACAGAGCC TGCCTAAGAC	240
TAATACTGGT CTAGAACAAA AGAGAAAGCT CAATTCCTAC CACCACAAAG CTAACAGCA	300
TCCAAGGCCT CGG	313

(2) INFORMATION FOR SEQ ID NO:1297:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 340 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

GAATTCGGCC AAAGAGGCCT AGATTTTGT CTTTAATTCT CTGTGTTTC AGNACCTTGC	60
GATTTTAAA GTATATTAA CTTTCTCCT AGATGTTTAC CTTGAAATA CCTCTCTCTC	120
CTAATGATT AGACCTATGT GTCCAACCTAC TTTTCGGACA TGTTCCCTA GATGTCTCAT	180
GGTAACTCC AATTAAACAT TTCCAAAGTT AAATTTATTT TATTTTACCA GACTTGGGTT	240
TTTTGTTTC TTTGTTTTG CTTTTCCT TTTAAGATA TCCTGGAGTC ACCAGAATCC	300
TATCTAGATA CCCTGGTTA GAGTTGCTCA TGATCTCGAG	340

(2) INFORMATION FOR SEQ ID NO:1298:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 370 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

GAATTCGGCC AAAGAGGCCT AGCTTCTTCT GAGAGAGTCT CTAGAAGACA TGATGCTACA	60
CTCAGCTTTG GGTCTCTGCC TCTTACTCGT CACAGTTTCT TCCAACCTTG CCATTGCAAT	120
AAAAAAGGAA AAGAGGCCTC CTCAGACACT CTCAAGAGGA TGGGGAGATG ACATCACTTG	180
GGTACAACT TATGAAGAAG GTCTCTTTA TGCTCAAAAA AGTAAGAAGC CATTAAATGGT	240
TATTCATCAC CTGGAGGATT GTCAATACTC TCAAGCACTA AAGAAAGTAT TTGCCCAAAA	300
TGAAGAAATA CAAGAAATGG CTCAGAATAA GTTCATCATG CTAAACCTTA TGCATGAAAC	360
CACGCTCGAG	370

(2) INFORMATION FOR SEQ ID NO:1299:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 342 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299:

GAATTCGGCC AAAGAGGCCT AGTTGGAGTT TGCTGATAGA AGGACTAGCT AAAGGCGTCA	60
CTGCAGGAAT TACAACTGA AGAGGACTCT GTTGGACTGT TTTTNTTTT	120
TTTAAAGAAA AACCCATTTT TTTCCTTAAG GACTTACTAG CCAAAATTTC TTAAACTTCG	180
AGGACTCTAC TAGCCATGGC CGAGCCATTC TTGTCAGAAT ATCAACACCA GCCTCAAAC	240
AGCAACTGTA CAGGTGCTGC TGCTGTCCAG GAAGAGCTGA ACCCTGAGCG CCCCCCAGGC	300
GCGGAGGAGC GGGTGCCCGA GGAGGACAGT AGGCATCTCG AG	342

(2) INFORMATION FOR SEQ ID NO:1300:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 217 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

GAATTCGGCC AAAGAGGCCT ATCTAGACCT GCCTCGAGTT GGTCTATCCT ATGCTTTATA	60
CGCTAAGAGA GACCACATTT TATTTGCTGT GTCCAACACA GGAATTTAAT AAATGTTGAT	120
TTTAGGAATG CCTTCAAGTT CCTCTTTATC TTATATCTC TTTCTACTTT GGCTTCTCCT	180
CTCTAGAGAA GTTCTAGATC TTTCCCAAC TCTCGAG	217

(2) INFORMATION FOR SEQ ID NO:1301:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 237 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

CCTTCGGAGA GAGGCACGCC CGGCCCGGAC AGTTCAGGCT CTCTCGGCTC CGGGGAGTTT	60
ACTGGCGTGA AGGAGCTTGA TGACATCAGT CAAGAGATTG CCCAGTTACA AAGAGAGAAA	120
TATTCAGTGG AACAAGACAT TCGAGAAAAG GAAGAGGCAA TCAGACAGAA AACCANCAG	180
GTGCAGGAAT TACAAAATGA CCTAGACCGG GAAACAAGCA GTTTCAGGA GCTCGAG	237

(2) INFORMATION FOR SEQ ID NO:1302:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 379 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:

GAATTCGGCC	AAAGAGGCCT	ACAAAGGAGA	CCCTTCATAT	CAAAATACAG	TTATCAAAAT	60
ATTTTAAAGT	TATATATAAT	TATGTGCTTC	TNCTACTAATG	TCCTTAAATAA	TGAGATCAAA	120
CAGCAGATCT	TAAAAACTGT	CATAATATTT	GGAGTAGTGA	TGGGCATAAA	AGTTATTCTG	180
AGATCTCCGC	AGGAACTGTA	ATGTGATATG	AAAAAGTCTG	TGACTCCTGT	TACCAACAAA	240
GTCTCAAGTC	TCAAGTCTAC	TACTAGGGTA	TGTTACCTAC	ATTCCCTAAG	TGAGGGAAAT	300
GTTATGTTTC	AGTTGAGGGC	AAATGATGGC	AATGATGTAA	TTTTTTTCTC	TTTCAAGTTC	360
ACAGCCCCC	CCGCTCGAG					379

(2) INFORMATION FOR SEQ ID NO:1303:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:

GAATTCGGCC	AAAGAGGCCT	ATTTTGCTGA	TTTCTTCTTA	CATATGAATT	ATGTGGGTAT	60
GTTTAAATTT	AAGTTAGGAT	AAACAGGCGT	TAAGTAAGGG	TTAGTGTAGA	ATTAAAGCAT	120
GTCATTTTGT	TAATCTCATC	GGGCCTTGAT	TTCATTAGTT	TAGGCCCTCC	ATTTTATAGA	180
TAGTGTTTCC	CAGACTTCCC	GGCTGCCTCA	ATCTCCTGGG	TCTTTGTAA	ATAACCTTAA	240
GCAAGCTCAT	TTCCCCCAGT	GTGTTCAAGT	CACAGAAAGC	TCGAG		285

(2) INFORMATION FOR SEQ ID NO:1304:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:

GAATTCGGCC	AAAGAGGCTT	AGTTGGTATC	TGCCCAGGGA	TAATTGCTCT	TAGGGTAAGA	60
CTTTTAAACAT	GTAAGCCAGC	CTGTCAAAAG	TGCACCTAAA	AGTCTCTTT	CAGTCATTTT	120
CTGAGTTACT	GATAGGAACA	TAGGTACTGT	GTGAATCAGA	TCTGAGAGGA	TTATGAATGT	180
TATAGAATGC	CTTTTGTTAG	GGAATTTAAG	CCCAGAAGAA	GTTGGGAAAG	TGACAGATTT	240
ATATAAATGC	GAGTGACAAA	ACCAGTTAAA	ATGTTCTGAC	TCAACCTGAA	ATATGTTGGA	300
CTATATAATA	AATATAATAT	TGTGAGATAT	TCTGAACCTAG	ACTCAACTCG	CTCGAG	356

(2) INFORMATION FOR SEQ ID NO:1305:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 489 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

CTCGAGTACG	TAGCGTAGAA	ATAGAGAATA	GGTCATCAGG	TTGGAGGTGG	AGTGTTTAAG	60
------------	------------	------------	------------	------------	------------	----

GACAAAGTTA TAAAGAAGTT TTTTGGTTTG AAAAATTAGA GGATAGGTTT GTACCATAGA	120
CAAATGGATA AGTTCGGAAA AAATCTTTTT TTTTTTTTTT TTTTTTTTAA AAAAAAGCC	180
ACGGTCTCAC TATGTTGACC AGGCTACCAG GCTCGTCTCA AACTGCTGGC CTCAAGCAAT	240
CCTCCCACCT AGGTCTCCCA AACTGCTGGG ACTACAGGCA TGAGGCAGAA TCGCCCGAAC	300
CCAGGAGGCA GAGGCTGCAG CGAGCCAAGA TCACGCCACT GCACTCCAGC CTGGGTGACA	360
GAGCAAGAAT CCGTTCTCCA AAAAAAGA AATAAATAA ATAAAAAGG GTGTTCATA	420
GGGGTGATGG GGAGGATGAA ACGTCATCAA ACAAGTTAA GAAACATCTA GGCCTCTTTG	480
GCCGAATTC	489

(2) INFORMATION FOR SEQ ID NO:1306:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

GAATTCGGCC AAAGAGGCCT AAACCTCAAAT AAAGAAGAAA TACAGGAAAA GGAGACAATC	60
ATTGAAGAAT TAAACACAAA AATAATAGAA GAAGAAAAGA AAACCTCTTGA GCTAAAGGAT	120
AAATTAACAA CTGCTGATAA ATTACTAGGA GAATTACAAG AACAGATTGT GCNAAAGAAC	180
CAAGAAATAA AAAACATGAA ATTAGAGCTG ACTAATTCTA AGCAAAAAGA AAGACAGTCT	240
TCTGAAGAAA TAAACAGTT AATGGGGACA GTCGAAGAAC TTCAGAAGAG AAATCATAAA	300
GACAGCCAAC TCGAG	315

(2) INFORMATION FOR SEQ ID NO:1307:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

GAATCTAGA CCTGCCTCGA GTAAAGCCTG TAGGTAAAT GGAGACAGAT TTGAAAGAAA	60
TTAGAGAAGA AATTTCCCAA AGGGAAAAGG TGCTAGCAGA GATCAGTGCT ATAAGGGAAA	120
AGGAGATTGA TTTGAAAGAA ACTGGAAAAA GAGACATTCC CATGATGGAG AAAGTATCAG	180
GAAAGATGGC TGTGTTGAA GGACATCTCG AG	212

(2) INFORMATION FOR SEQ ID NO:1308:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

GAATTCGGCC AAAGAGGCCT AGAAATATTA ATGAAATCGC TGAAAAGCTT TGCCTTCGAG	60
AGGCCAGAAG CCTCGCGGAA TGTCTGCAAG TCCAAAGACG CGTGTGGGTT GTGCCCTGAA	120

GTGCCGTCCA GCAGGCGCGT GCGGCCGGGC CGGCCTGTGC GTGTGGCCTT TGCCTTCTTC	180
CCTTTCTTCC TGTCTTCTGT TTTTAAATT TGGGACTGG TGAGGCTCG TCCATGTCCT	240
TTGTCAGGTC TTCTTGCTCC TCCCTCGAG	270

(2) INFORMATION FOR SEQ ID NO:1309:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 386 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

GAATTCGGCC AAAGAGGCCT AGTCTTATAC CTGGGATGTA GCTGACAAAT TATTGCATTG	60
TAAAATGAGT CACGTGAATC ACGGAAGCTT TAAACTTTTT CTTTTATAG CCCTACCTGA	120
ACCCATCCTT CCATCCCTCC AAAAAATTIA CCCAGTAAGT GTTCTTATA AATTATTATA	180
ATACATTTTA TGTCAAGTGT ATGTAGAACT ATTATAAGTA GTATTAATGT GATTATAAAA	240
GTAAGTAAAGC TAAGTACATG ATAACATTTT CTATATATAC CAAGAGAACA TTAAAATGT	300
TTCATATACT GTTTCAGAAA ACTCTCTTAC TTGTTATTTT GTTATTGGCA GACAGTCTGG	360
TCAGTTGTGT TAATGGTGGA CTCGAG	386

(2) INFORMATION FOR SEQ ID NO:1310:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:

GAATTCGGCC AAAGAGGCCT ACCATTTTAG CCTGCAGGCT TCCTTGGGCT TTCTCTGTGT	60
GTGTAGTTTT GTAAACACTA TAGCATCTGT TAAGATCCAG TGTCATGGA AACATTCCCA	120
CATGCCGTGA CTCTGGACTA TATCAGTTTT TGGAAAGCAG GGTTCCTCTG CCTGCTAACA	180
AGCCACCGTG GACCACTCTG AATGTCTTTC CTTTACACCT ATGTTTTTAA GTAGTCAAAC	240
TTCAAGAAAC AATCTAAACA AGTTTCTGTT GCATATGTGT TTGTGAACCT GTATTGTAT	300
TTAGTAGGCT TCTATATTGC ATTTAACTTG TTTTGTAAAC TCCTGATTCT TCCTTTTCGG	360
ATACTATCTC GAG	373

(2) INFORMATION FOR SEQ ID NO:1311:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 402 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:

GAATTCGGCC AAAGAGGCC TAAACAGATA TTTACTGAGC ATTTACCATG TTCAGTAACC	60
AGGGCCCTGG GAATATAATA GGAGAAGGCA GATGAGATCC TTGCCTTCAC CAAGCTTATG	120
TTTTTCTATT TTAAGTAAAA TTTGCCATGA CAAATTTCT ATCAGCGGAA GAGCCAGTAA	180

CTCTTATTGT AATAGGTTTT ACCCAGTTTT AGAAAAGGAA AGTAGCTAAA CTCTTGGTTC	240
CTTGGTGTGT GTTTTGTTT GTTCATTCT AGTACTTGTC TATGTCTTTG GGGTAATTTT	300
TGATTTAGAA TTTTGTAGAA ATTACTCGGC ACAGTGTAGT TGAGGTGAAT ATAGGCAAGA	360
AGGCTTAGGA AGCCTACAAC AAAGGAATCT GACACACTCG AG	402

(2) INFORMATION FOR SEQ ID NO:1312:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 519 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:

GAATTCGGCC AAAGACGCCT AATTGAATTC TAGACCTGCC TCGAGTTGGA CCCTGAGTGT	60
ATCACTCCCA AGTGTGTACT ATTTATACAC AGCAGTTTCC AATGTACTCA AATCAACCTC	120
ATGTTCTTTG CTGTAGTAAG CTGAATGAAC ATGACTCTTG AATCACCTTA AATATGCTTG	180
ATAACATGTC AGGATTCAGA ACAGCAAAAA AGAAAGCTTT AAAGGGAGAT ATGCTGGGCT	240
CATTCACATC AAACGTCAGG GGAAACCTGG TTTATGTCCC ATAGCTACTA GAATTCCTAC	300
ACTTGGCCAG CTTATTTTAA TAGACCATTT CTCAACTACT CTAGCTGTTC TGTCTAGTTC	360
TAAATAAAAA GCTAGGTAGT TGGGTACTAA AAGGCAAATA TGAATATATC AGTGGCTCTG	420
TATCATCTGC AGCAGTGGTT CTCAGTGTGA TTCCTGGACA' GGCAGCACAA GCATCATCAG	480
GGAACCAAGT GGTAAATGCA ACTCTGGGGC GCATCTCGAG	519

(2) INFORMATION FOR SEQ ID NO:1313:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:

GAATTCGGCC TTCATGGCCT ACGAGGACGT GAGCAGATAT ACCAGCCCAG TGAACCCAGC	60
TGCTTCCCC CATCTGACCG TGGTGCTTTT GGCCATTGGC ATGTTCTTCA CCGCCTGGTT	120
CTTCGTTTAC GAGGTCACCT CTACCAAGAC ACTCGAG	157

(2) INFORMATION FOR SEQ ID NO:1314:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:

CTCGAGTTCA CTACCATGAC AATCATTAAT TAATTGGTT TCTCTAGTGA GGTTAGTTGC	60
TTTCTTCCCT TCCTCCAGCA TCTGACCAAG GTCTGATTCT ACAGCTATTT GGGAAACAGT	120
AGTTTCTGGT GACATAGCTG AAGACCCTGA TGCTGTCATA GTCTGAATTC CAGAATCTTT	180
AGAATCTTGA GTTTCAGTAT CAGTTTGCTT TTCAGTAACA GGTTTTCTCT CTTGAAATAT	240

TAATTTGTCA TCATTACCAA ACATGTCCAG TTTTTCACCG GCTTCAGATG CAGCTGGAGA	300
CAAACTGTTA TCTTGGAGCT CTGTGGGTAG ATTAGCTTCC TCAGTAGGAC TGCCTTCTAC	360
TTTCAGTTCC ACATAATCAT CATCTTCCTC TTCTCTACT ATAGATTTAT CCAAGAATTC	420
TGGCATCTCT GAGGCAGGTC TAGAAATTC	449

(2) INFORMATION FOR SEQ ID NO:1315:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:

GAATTCGGCC TTCATGGCCT AGTGAATAC TAGGATATTT GTTTGGCAGC AATAGAGCGG	60
CAACACCCTT CTCAGACTCG TGGTACTACC CGTCTATCC TCCCTCCTAC CCTGGCACGT	120
GGAATAGGGC TTA CTACCCC CTTCATGGAG GCTCGGGCAG CTATTCGGTA TGTTCAAAC	180
CAGACACGAA AACCAGAACT GCATCAGGAT ATGGTGGTAC CAGGAGACGA TAAAGTAGAA	240
AGTTGGAGTC AAACACTGGA TGCAAAATT TTGGATTTT CATCACTTTC TCTTTAGAAA	300
AAAAGTACTA CCTGGTTAAC AATTGGGAAA AGGGGATATT CAAAAGTTCT GTGGTGTAT	360
GTCCAGTGTA GCTTTTGTGA TTCTATTATT TGAGGCTAAA AGTTGATGTG T	411

(2) INFORMATION FOR SEQ ID NO:1316:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

GAATTCGGCC AAAGAGGCCT ACATCCAACA AGAAGCCATA ACTTTATTTA TGATAGAAAC	60
AGTACAAATT TCAAACCAAG CTGCAGTTAC TCCTTTGAGA CACCAAAAAA AGTTGCCTCC	120
ATATGGTTAC ATTGTTAATT CCATAATCGC ATTACAATA TCATTACTGT TGTTCTTCAG	180
GGCTCGGACT GCCTTTGCTC TCGACACATT TGCTTGTTGAC ATGACCAATT CTATGTCCTT	240
AACTTCTACA CCTGTTTCAC TTCCTCTTCT CGAG	274

(2) INFORMATION FOR SEQ ID NO:1317:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

GAATTCGGCC AAAGAGGCCT AGGCGGAGGT GCAGGTCCTG GTGCTTGATG GTCGAGGCCA	60
TCTCCTGGGC CGCCTGGCGG CCATCGTGGC TAAACAGGTA CTGCTGGGCC GGAAGGTGGT	120
GGTCGTACGC TGTGAAGGCA TCAACATTTC TGGCAATTTC TACAGAAACA AGTTGAAGTA	180
CCTGGCTTTC CTCCGCAAGC GGATGAACAC CAACCTTCC CGAGGCCCTT ACCACTTCCG	240

GGCCCCAGC CGCATCTTCT GCGGACCGT GCGAGGTATG CTGCCCCACA AAACCAAGCG 300
 AGGCCAGCC GCTCCTCGAG 320

(2) INFORMATION FOR SEQ ID NO:1318:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 226 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

GAATTCGGCC AAAGAGGCCT ATAATTTTTC CCATCATTTA CCCTGATAAT CTGCCTCTTC 60
 TCCATTTCTC CTTCCCTTAC TACCTTTCTT TGAATTACTG TAACTGATTG GTCCCACCAA 120
 AATTTTAAAG TACATGAAGT ATCTTCATTG GTTCATCCTC TTGCCCCCTC CAGATGTCAA 180
 AAAACTTTAT CCTGCCCCCT TGCCTCCACC CGATGGCCCA CTCGAG 226

(2) INFORMATION FOR SEQ ID NO:1319:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 192 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

GAATTCGGCC AAAGAGGCCT ATGAAGCTTC TGAGTTCTGC GGCCTCACNT CTGAGAAAAC 60
 CTCTTTGCCA CCAATACCAT GAANCTCTGC GTGACTGTCC TGTCTCTCCT CGTGCTAGTA 120
 GCTGCCTTCT GCTCTCCAGC GCTCTCAGCA CCAATGGGCT CAGACCCTCC CCCCCTGGC 180
 AAATCTCTCG AG 192

(2) INFORMATION FOR SEQ ID NO:1320:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 210 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:

GAATTCGGCC AAAGAGGCCT ATTTATTACA ACAGATCTTT TAATGACTAT TTTTAACATA 60
 AAGATTGTTG TTTTGGGAAA CATCTATTCT CTTGAACAT TTCATAAAT TTTCAATGTA 120
 TTTAAATACT GACAGAAATA AGTTCTGTGT TCTGTACAAA TTAAAGGTCC CATGAATACA 180
 TAACCCCCAC CCCCCCCC TCCACTCGAG 210

(2) INFORMATION FOR SEQ ID NO:1321:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 156 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:

```
GAATTCGGCC AAAGAGGCCT ATTTTITTTT TGATCTATGA ATGATTTATT AGATAAATTC    60
TATACATACA AAGTACAGAT TCTTCATTTA GCATTGATTT ACTTCTTAGT TTTCATCTTT    120
CTGACTATCC AAACCGCTGA CTCGAGGCAG GTCGAG                                156
```

(2) INFORMATION FOR SEQ ID NO:1322:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 199 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:

```
GAATTCGGCC AAAGAGGCCT ATTTTIGCTA CACTATGTTA CAGAACAGCT TATAAACTA    60
GGTATGAACA TTAAGTGTGA GTGTAAACAG TAGGACTACC ACTTGTCAAA AGTTTAAAC    120
ACTTGAAC TGACTGGTAC TGGTTATTCA TCATTTTCAT TGTTTTCTAT TTCATCCCCC    180
CCACACCCCT CTGCTCGAG                                199
```

(2) INFORMATION FOR SEQ ID NO:1323:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 209 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:

```
GAATTCGGCC AAAGAGGCCT ACACGGTACC AACACAACCT CAAGCATCGA CTCCTCCGCA    60
GACCCAGACC CCTCAGCCGA ATCCTCCTCC TGTGCAGGCC AGGCCTCACC CCTTCCCTGC    120
CGTCACCCCG GACCTCATCG TCCAGACCCC TGTCATGACA GTGGTGCCTC CCCAGCCACT    180
GCAGACGCCC CGCCACTCAG CGCCTCGAG                                209
```

(2) INFORMATION FOR SEQ ID NO:1324:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 229 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:

```
GAATTCGGCC AAAGAGGCCT AATCACTACT CACAGTAACC TCAACTCCTG CCACAATGTA    60
```

CAGGATGCAA CTCCTGTCTT GCATTGCACT AAGTCTTGCA CTTGTCAACA ACAGTGCACC	120
TACTTCAAGT TCTACAAAGA AAACACAGCT ACAACTGGAG CATTACTTC TGGATTTACA	180
GATGATTTTG AATGGAATTA ATAATTACAA GGCTCCAAAC TCACTCGAG	229

(2) INFORMATION FOR SEQ ID NO:1325:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 204 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

GAATTCGGCC TTCATGGCCT AGCTTTCCCA ATCTCTCGGA GCATGCACAT CAGGGCCACG	60
TTGGTCTTCC CAGCACCAGT AGGAGCACAC AGCAGCAGAT TCTCATCCGT CTCAAGGGCA	120
GCACGGTAGA GCTTACTCTG GATCCGATTC AGTGTTTGA AGCCCTCAA CCCAGCCTGG	180
ATTGAATTCT AGACCTGCCT CGAG	204

(2) INFORMATION FOR SEQ ID NO:1326:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 192 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

GAATTCGGCC AAAGAGGCCT AGCCGATCTC CAGCCCAAGA TGATTCCAGC AGTGGTCTTG	60
CTCTTACTCC TTTTGGTTGA ACAAGCAGCG GCCCTGGGAG AGCCTCAGCT CTGCTATATC	120
CTGGATGCCA TCCTGTTTCT GTATGGAATT GTCATTCCCC CAGAGCGTCT CGAGGCAGGT	180
CTAGAATTCTG AG	192

(2) INFORMATION FOR SEQ ID NO:1327:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 222 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

GAATTCTAGA CCTGCCTCGA GAATAGGATA GCATTTAGTA ATTCACTTAA CAATTTTAT	60
TGAATATCTA TTGTTTTATT GAATATGCTT GTTCTCACCT TAGCACATTT GCCCTTGTC	120
TCCCTGGGAT ACTATTCCCC TAGATCTGAT TTTTGGTTT TGTGTTTGT TGTTTTAATT	180
CTCTGCCATC TTTCTCCAGT CAAATGTCAC CAACTCTCG AG	222

(2) INFORMATION FOR SEQ ID NO:1328:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 267 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

```
GAATTCGGCC TTCATGGCCT AAGAAATGTT CACTTTTCCA ACTTAAAAGG ATTTTAAAAA    60
ATACAAACAT AATTGACCTA CCTGGTTCAA AGAACAGAAG TGAGGAGAAC TTGCTTAAAG    120
GTATTGATGT TATATTTTCT CTTGACTGAG TGCTTGAAAA AAAATTTTAT TGAACATATG    180
TTCTCCTTCC GTGGCTTTT TGTCTTTGCT TTTTGTTTT GTTTTGTGTT TTTTTCCTT    240
GAGATGGAGT CTCACTCTCT GCTCGAG    267
```

(2) INFORMATION FOR SEQ ID NO:1329:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 267 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329:

```
GAATTCGGCC TATGGCCTAA AAAAAAAAAAG AAAGAAATAG GATTGATACA GGTATAGATA    60
CATAGATACA TGAGAAGGGA TTTATTATGG GAATGGGCTC ATATGATTAC AATGATTACA    120
GAGGCTGAAA ATCCACAA TAGGCCATCT GCAAGCTGGG GACCAGGGAA GCCATTTATG    180
TGGTACAGTC TAAGCGTCAA TCAGGAAAGC CAGTTGGGTA ACTCTCAGTC TGCAGCTGAA    240
GGCCTGAGAC CCGGAGGTCC ACTCGAG    267
```

(2) INFORMATION FOR SEQ ID NO:1330:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 267 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330:

```
GAATTCGGCC TATGGCCTAA AAAAAAAAAAG AAAGAAATAG GATTGATACA GGTATAGATA    60
CATAGATACA TGAGAAGGGA TTTATTATGG GAATGGGCTC ATATGATTAC AATGATTACA    120
GAGGCTGAAA ATCCACAA TAGGCCATCT GCAAGCTGGG GACCAGGGAA GCCATTTATG    180
TGGTACAGTC TAAGCGTCAA TCAGGAAAGC CAGTTGGGTA ACTCTCAGTC TGCAGCTGAA    240
GGCCTGAGAC CCGGAGGTCC ACTCGAG    267
```

(2) INFORMATION FOR SEQ ID NO:1331:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 494 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:

ATGGATTGGT TGCCGTGGTC TTTACTGCTT TTCTCCCTGA TGTGTGAAAC AAGCGCCTTC	60
TATGTGCCTG GGGTCGCGCC TATCAACTTC CACCAGAACG ATCCCGTAGA AATCAAGGCT	120
GTGAAGCTCA CCAGCTCTCG AACCCAGCTA CCTTATGAAT ACTATTCAC T GCCCTTCTGC	180
CAGCCCAGCA AGATAACCTA CAAGGCAGAG AATCTGGGAG AGGTGCTGAG AGGGACCGGA	240
TTGTCAACAC CCCTTTCCAG GTTCTCATGA ACAGCGAGAA GAAGTGTGAA GTTCTGTGCA	300
GCCAGTCCAA CAAGCCAGTG ACCCTGACAG TGGAGCAGAG CCGACTCGTG GCCGAGCGGA	360
TCACAGAAGA CTACTACGTC CACCTCATTG CTGACAACCT GCCTGTGGCC ACCCGGCTGG	420
AGCTTACTC CAACCGAGAC AGCGATGACA AGAAGAAGGA AAAAGATGTG CAGTTTGAAC	480
ACGGCTTACT CGAG	494

(2) INFORMATION FOR SEQ ID NO:1332:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

GAATTCGGCC TTCATGGCCT AGCTGATATT ATTTCTGAGT TTTTGCTTAT TTGCTTTCTA	60
CATAGAATCA ATAAAATTGA CAACTAGCAT TGCCTATATA TGCAGGTGTG ATACTATTCA	120
GGGTACTAGT ATATTGGCCA CTCATTATGA AACTTTCAGG TCCTCATATA TTTTCTTTTA	180
TTACAATGAT CTACTATTTT CTGATAAATA TTGGATTTCAT AGAGGCTAAA GGGCTGGGAA	240
AGGAAAACAT TCGTGACTAC TTACAACCAT TTGATACGAG TTGTGTCAAT ACAGACCTCA	300
CACAGCAGCA CCTCGAG	317

(2) INFORMATION FOR SEQ ID NO:1333:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

GAATTCGGCC TTCATGGCCT AGCTTTTCTA GCCTTTCTCA AAGAAATGCA AACAGCTTGT	60
GTTTTTTCCC CTTGGGTCCT ATTGTACCTA CTTTGTGTTG ATGGTCTCTC TGTCTCCCAT	120
GATGCCAGTG AATGTAGCAG TTTCTCTCCA CTTCCACCAG TGCCTGGGGA AAATTTGGTA	180
TTGGCAAATT TGAGTTCTGC CTTTTTGCAG CTGTCATTGC TGGATCAAC CTTAGGAGCC	240
TCAGTTACCC TCGAG	255

(2) INFORMATION FOR SEQ ID NO:1334:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GAATTCGGCC	TTCATGGCCT	ACTCTTCCCC	AAAAGGAAGC	ATTTACTCTG	CCTCTTACAG	60
TGCAGAGTGA	CAGAATGGAC	ACAGAAAAAC	ATAGGTGGGT	CAGAACAGAT	CTCAGTTTGA	120
ACCCAGTAGC	TACTGGCTAT	AGGGTCTCTG	GGCAAGTGAT	TTGACCTCTC	TGCGCTCTGT	180
CTTCTCAAAT	GTA AAAACGG	GTCAGGCGCA	GTGGCTCATG	CCTATAATCC	CAACACTCCG	240
GGAAGCCAAA	GTGGGAGGAC	TCTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1335:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

GAATTCGGCC	TTCATGGCCT	ACAAATGTAA	AAATAACTGG	GCACTGAAGT	TTTCTATCAT	60
ATTATTATAC	ATTTTGTGTG	CCTTGCTAAC	AATCACAGTA	GCCATTTTGG	GATATAAAGT	120
TGTAGAGAAA	ATGGACAATG	TCACAGGTGG	CATGGAAACA	TTCGCCAAA	CCTATGATGA	180
CAAGCTCACA	GCAGTGGAAA	GTGACCTGAA	AAAATTAGGT	GACCAAACCTG	GGAAGAAAGC	240
TATCAGCACC	AACTCAGAAC	TCTCCACCTT	CAGATCAGAC	ATTCTAGATC	TCCGTCAGCA	300
ACTTCGTGAG	ATTACAGAAA	AAACCAGCAA	GAACAAGGAT	ACGCTGGAGA	AGTTACAGGC	360
GAGCGGGGAT	GCTCTGGTGG	ACAGGCAGAG	TCAATTGAAA	GAAACTTTGG	AGAATAACTC	420
TTTCCTCATC	ACCACTGTAA	ACAAAACCCT	CCAGGCACTC	GAG		463

(2) INFORMATION FOR SEQ ID NO:1336:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

GAATTCGGCC	TTCATGGCCT	AAATTCTAGA	CCTGCATCGA	GGCGGGCGAC	CTGATGATGA	60
CCAGCTTCGA	GAGGATGCTG	TCCCAGAAGG	ACNTGGAGAT	CGAGGAGCGC	CACAAGCGCC	120
ACAAGGACAG	GATGAAGCAA	ATGGAGAAGC	TGAGGCACCG	GTCCGGAGAC	CCCAAGCTCA	180
AGGAGAAAGC	GAAGCCGGCA	GACGACGGGC	GGAAGAAGGG	TCTGGACATT	CCTGCTAAGA	240
AACCGCCGGG	GCTGGACCCT	CCATTAAAG	ACAAAAAGCT	CTCGAG		286

(2) INFORMATION FOR SEQ ID NO:1337:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:

CTCGAGGGTT TTTGTTTGGC TGGTTGTGTG TACACAGTGT ATACAAGTTG AGTTGTACAG	60
AAGCCCAAGA AAGAGCAAGA GACAAAGGGT AGTGGGAGCA GGGGGTGGGG CGGGGGCGAG	120
AACGGGGAGG AGGGGAAAGG AGACCGATAA AAAATAGAAC CACATCCAGA CAACAATGGG	180
GGATGGGCAG TGGGTGGGGG CCAGACACAG ACAAATCGCC GTAGAAAAGG AGTGGGAGGG	240
GCAGAGAGTA GAGGG	255

(2) INFORMATION FOR SEQ ID NO:1338:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 259 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:

GAATTCGGCC TTCATGGCCT AAGAGAAAGC ATTTTAACTT TTATAGTAA CAATAAAAAA	60
GCCTCATAAA GCTTCTCACA ACAACTTCAT TCGTTTCAGA AGTTAAGATA TATTCCTTAT	120
GAATACCAAC ATTGTGACAT TTGTGTTGCC AATTATTTTC TCTGGAATCA TTCTTTTAAC	180
TCACTTCCT GTTGTGTTGG AAGACTTTGC AGAGAACATA TTTTAAATAG GCTATAATCA	240
CACGGGCAAC AGACTCGAG	259

(2) INFORMATION FOR SEQ ID NO:1339:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:

GAATTAGAAG TATTGTTTAA TAAGTCCTTT TTTTCTACTC AACATTAAGT AGTAATCAAC	60
TTTACCTCC GCCAGTTTTT CTGCTTTTTT GCTGGTACGA TCTCTCTTC TAAATTGAAT	120
CAAAGACCTA GGTGGAACGT GAAACTTAGG AGGGAAAGAC AAAATGAGGC TTGTTTATGA	180
TCAAATTCTG TGTACTCIAG TTGCTTCTTT CCCTTGGAGT GACAGGTACT TTTATATCCA	240
GGATGATTAC AGTGATGACA TCCATTCTTT TTTGGGGGCC CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:1340:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 240 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

GAATTCGGCC TTCATGGCCT AGGAATCAGT AGTGACTTTT GATTGTATTG TATAAGGTAT	60
TTTCAAATAG AAAAGCAGGT AGCAGAAATA CTAAAAGAAT TTTTGTCTTT AGTGTAAGT	120
AGATAATGAG AGGTAGATGC CTAATTCTTT AGTTTTCTTT TTAAAATTAT GCTAAAATAT	180
ATCATATCAT TTACCATTTT GACTATTTTA AAAGTATACA GTTCCGTGGC AAGTCTCGAG	240

(2) INFORMATION FOR SEQ ID NO:1341:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 245 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:

```
GAATTCGGCC TTCATGGCCT ACAAATGT GTCTTTTTT TGGCAATGTT GTCTTGCCAA    60
TCCCATCCCT CCCCAGCTC TCCGAACAGC AGGATTTCCT AACGGCAGCT TGGGANAAAG    120
ACCCAGTGGC AGCTTGGGGA AAAGACCCAG CGTCCGTTT AGAAGCAACG TGTATCAGCC    180
AACTGAGATG GCCGTCGTGC TCAACGGTGG GACCATCCCT ATTGCTCGGC CAAGTCACAC    240
TCGAG                                     245
```

(2) INFORMATION FOR SEQ ID NO:1342:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 134 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

```
GCGATTGAAT TCTAGACCTG CCTCGAGACT GACGCCGCAC CATGACCCTC CTGCTGCTGC    60
CCCTTCGCT GGCCTCTCTG CTGCGTCTCT GTCCTGTAA CAAAGCCAAC AAGCACAAGC    120
CACCGCATCT CGAG                                     134
```

(2) INFORMATION FOR SEQ ID NO:1343:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 381 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343:

```
GAATTCGGCC AAAGAGGCCT AAAAAGCTTC CAGCAGCAGA TGCAGAATTA CCTTAAAGAC    60
AACAAACAG CCACTATTTT GGACAAATTG CAGAAAGAAA ATAAGTCTG TGGAGCTTCT    120
AACTACACAG ACTGGGAAAA CATCCCGGC ATGGCCAAGG ACAGAGTCCC CGATTCTTGC    180
TGCATCAACA TAACTGTGGG CTGTGGGAAT GATTCAAGG AATCCACTAT CCATACCCAG    240
GGCTGCCGTG AGACTATAGC AATATGGCTA AGGAAGAACA TACTGCTGGT GGCTGCAGCG    300
GCCCTGGGCA TTGCTTTTGT GGAGGTCTTG GGAATTATCT TCTCCTGCTG TCTGGTGAAG    360
AGTATTCGAA GTGATGTCGA G                                     381
```

(2) INFORMATION FOR SEQ ID NO:1344:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 486 base pairs
 - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

```
GACCAGATGG AANGGTCACC GAACAGTTCT GAGTCATTTG AGCATATAGC TCGATCTGCA      60
AGAGATCACG CAATTTCCTT TTCTGAGCCT CGTATGCTGT GGGGGTCAGA TCCCTATCCT      120
CATGCTGAGC CTCAACAAGC AACTACTCCC AAAGCAACAG AAGAGCCTGA GGATGTAAGG      180
TCTGAAGCTG CGTTGGACCA GGAACAGATT ACTGCTGCTT ATTCTGTAGA ACATAATCAA      240
TTAGAGGCTC ACCCAAAGGC AGACTTTATC AGAGAATCAA GTGAGGCACA AGTACAAAAG      300
TTTTTAAGCA GATCTGTGGA AGATGTTAGA CCTCACCATA CTGATGCAAA TAATCAGTCT      360
GCTTGTTTTG AAGCACCTGA TCAAAGACC TTATCCGCTC CTCAAGAGGA GCGGATTTC      420
GCTGTAGAAA GTCAGCCTTC CCGGAAAAGA AGTGTTCCTC ATGGATCTAA CCATACGCGC      480
CTCGAG                                         486
```

(2) INFORMATION FOR SEQ ID NO:1345:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 243 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

```
GAATTCTAGA CCTGACTCGA GGTGCTGGAA TTACAGATAA AAGCCACCAC ACGCAGCCCA      60
CATAAAGTGT TTATGGGAGC AACTAACAGT TGGTTTGAGC GCAGCCTAAA TAGGGGATGG      120
CAAGGTTGGG TTTTCCAAGG TTTTCTAATC TTTCTATTTC TTCTAGTGAG TCCTCAGGTT      180
ATTATGACTT GTGTTACCAG ACTATCAACA AAAGTGGGTA CCTCTTTAAA TCAGAGCCTC      240
GAG                                         243
```

(2) INFORMATION FOR SEQ ID NO:1346:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 294 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

```
GAATTCTAGA CCTACCCCAT CCACATGCAC AGCCAGCTGG ACCACCTTAG CCTCTATTAC      60
TGCAGGTGTA CTCTGCCAGA GAATCCAAAC AATCACACCC TCCAGTACTG GAAGGACCAC      120
AACATCGTGA CAGCAGAAGT CCACTGGGCT AACCTGACTG TCAGTGAATG CCAGGAGATG      180
CATGGAGAGT TCATGGGATC TCGGTGCGGC CATCATGGAC CCTACACTCC TGATGTCCCT      240
TTTTGGTCCT GTATTCTCTT TTTCACCACC TTCATCCTCC CAAGCACCTC CGAG          294
```

(2) INFORMATION FOR SEQ ID NO:1347:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 240 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

AGTTTCTCCA TTTTAGAATT TTGTTGTCCT CCTTAATCAT CTGCTTACCT AGTCATTACT	60
CAATCTGCAG AAACCTTCATA AAGGAAAAGT GCTGCATTGT TTTTACAAAT AACAGTTTGT	120
AGGGAAAATA TGACAAACCT CAACTATGGG AGTTGTCCAC AATACAAAAT TTTGAAAAAA	180
CATTACATAG TGATAATATC ATACTTGGTT GTTAGGCTTG TTGCTTCCCC ACCACTCGAG	240

(2) INFORMATION FOR SEQ ID NO:1348:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

AAGTATCTTT TCAATTGCAA AGTGGCAACA GCTTTTATAT GCTAAGTCTG ACAAGTTTGC	60
AGTCAGTGAA TGATGGCACA TGGCACGAAG TGACCCTTTC CATGACAGAC CCACTGTCCC	120
AGACCTCCAG GTGGCAAATG GAAGTGGACA ACGAAACACC TTTTGTGACC AGCACAATTG	180
CTACTGGAAG CCTCAACTTT TTGAAGGATA ATACAGATAT TTATGTGGGA GACAGAGCTA	240
TTGACAATAT AAAGGGCCTG CAAGGGTGTC TAAGTACAAT AGAAATCGGA GGCATTTATC	300
TCTCTTACTT TGAAAATGTT CATGGTTTCA TTAATAAACC TCAGGACGAG CTCGAG	356

(2) INFORMATION FOR SEQ ID NO:1349:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

GAATTCTAGA CCTGCCTCGA GACCTTTCTC CTGGTCTAAT GCTCCTTTTA AGGAAGGTGG	60
AAGGAACAAT GGAAGAATGC TTGTAAAGTA ATGTATTCTT AAGAACTAAA GCTATTTGCA	120
GAAGGGCCGA AGCTATGTGG TGTGAAAGGG AAATGAAGAG GGTGAGTTGG GGGGCTCGAG	180

(2) INFORMATION FOR SEQ ID NO:1350:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

GAATTCTAGA	CCTGCCTCGA	GCTTTCCTG	ATCTTCTTCC	ATCCCTTACT	GACAGTGT	TTT	60
ACCAAGGATT	TCCCTTGGCC	TGCTTCTTTC	TTTGACGCTC	ATTTAAACCT	TTCCTTCAG		120
TTGCAGACCT	CGTCTGCTTC	TCCCAGCTAT	TCCATTCTTC	AGTTGCTTGT	TAAACACGGC		180
CCACCATCAC	CTCAAAAATG	ATGTTAAAAT	GTCCCCATTT	TTTATCAAAC	TTAAGTTTCT		240
TCCTGTGGAT	CTGTTGCTCA	GTA	CTTCTCAT	CTTCCGATC	ACTCGAG		287

(2) INFORMATION FOR SEQ ID NO:1351:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

GAATTCGGCC	TTCATGGCCT	AAAAAATTCT	TTTTTAATGG	GTTTAAACA	CTAACTGA		60
GAATTTTCT	TGATCCCAT	CTGTTGGTTT	ACTTGATTGC	TATAGCTGTA	TGGTAAATCT		120
CAA	AATTAGG	TAATGTGATT	TCTTTTTTCT	TACTATTTT	ATTTAAAT	CATTTAGCAT	180
TC	TAGTTTG	ACTTCCATA	TACACTTAG	GATTGGTTT	TCTGTTTTTC	AAATATCTT	240
GCTTGGATT	TGATAGAAAT	TGAGTTAAAT	CTATAGATCA	ATGTGTTGGA	AATTGGCATC		300
TTAGTCTTCC	AATTCATGAA	CATAGCCTAC	TCGAG				335

(2) INFORMATION FOR SEQ ID NO:1352:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

GAATTCGGCC	TTCATGGCCT	ACGTATGAGA	CAGTGTATAT	GACACTGTAT	ATGTGTGAGA		60
CTGTGTGTGT	GAAACACTAT	ATGACACTGT	ATATGTGTGA	CACTGTATAT	GACACTATAT		120
GTG	GAGACTA	TGTGTGAGAC	ACTATGTATA	TGTGACACTA	TGTATGTGTG	TGACACTGTG	180
AGAG	CACTG	TGAGACACCA	AGACAGTATA	TGTATGAGAC	ACCCTGTGTG	TGTGACACAG	240
CGTGTGACTG	TGTGAAACAT	GCTCGAG					267

(2) INFORMATION FOR SEQ ID NO:1353:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 202 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

GAATTCGGCC	AAAGAGGCCT	ACCCAGAACC	AGTTATACTG	AGGGTCCTGA	GATCTGCTAT		60
AACATCACCA	TCCTTCAAC	CCAGAGGTGT	GTGTTGTGG	GCCATTGATT	TGGCCCTCAC		120
CACATCCTGC	CTTGATTGC	TAGTTTATCT	TTTTATTGTC	TTTGTCTCC	CCCAACCTCC		180
TGCGCCATAC	AGACTCCTCG	AG					202

(2) INFORMATION FOR SEQ ID NO:1354:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 285 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

```
GGTTTGATA TCCTGAAAGA TCAATGGGCA GCTGCAATGA CTCTCCGCAC GGTATTATTG      60
TCATTGCAAG CACTATTGGC AGCTGCAGAG CCAGATGATC CACAGGATGC TGTAGTAGCA      120
AATCAGACGA GCAAAAATCA AATTAAAGTA GATCTTGTAG ATGAGAATTT TACAGAATTA      180
AGAGGAGAAA TAGCAGGACC TCCAGACACA CCATATGAAG GAGGAAGATA CCAACTAGAG      240
ATAAAAATAC CAGAAACATA CCCATTTAAT CCCCCTGATC TCGAG                      285
```

(2) INFORMATION FOR SEQ ID NO:1355:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 306 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

```
GAATTCGGCC TTCATGGCCT AGTTATTTTCG TCACTGTCGC AAACAGCAGG CAAAGTTTGA      60
CGAGTGTGTG CTGGACAAAC TGGGCTGGGT GCGGCCTGAC CTGGGAGAAC TGTCAAAGGT      120
CACCAAAGTG AAAACAGATC GACCTTTACC GGAGAATCCC TATCACTCAA GACCAAGACC      180
GGATCCAGC CCTGAGATCG AGGGAGATCT GCAGCCTGCC ACACATGGCA GCCGCTTTTA      240
TTTCTGGACC AAGTAAAGAT GGTCCGTGG CCCACACTCG GTCATGTGCT CAGACAACAA      300
CTCGAG                      306
```

(2) INFORMATION FOR SEQ ID NO:1356:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 297 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

```
GGAATGATGT CACTCACGTC CAGCAAAGCC AAAGAGCTGA AGGACCGGCA CCGGGACTTC      60
CCAGACGTGA TCTCAGGAGC GTATATAATT GAAGTAATTC CTGATACCCC AGCAGAAGCT      120
GGTGGTCTCA AGGAAAACGA CGTCATAATC AGCATCAATG GACAGTCCGT GGTCTCCGCC      180
AATGATGTCA GCGACGTCAT TAAAAGGGAA AGCACCTGA ACATGGTGGT CCGCAGGGGT      240
AATGAAGATA TCATGATCAC AGTGATTCCC GAAGAAATNG ACCCACAGGC TCTCGAG      297
```

(2) INFORMATION FOR SEQ ID NO:1357:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 276 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

GTCCCGCTAA ACCGGCAGGC GATGAGAAAG GAAACCATCA CTAAGATGCT CTGGAGTACC	60
CGCACCTGT TGAATATCAC CAAGGAGCAG GTACCACTTG TGGTGGAGGA GTACCTGGAC	120
AATGTCAATG AGCATGACTG GAAGATGCTA CGAAACCGTA TGATGGACAT AGTTCAAGAT	180
GCCACTTTCG TGTATGCCAC ACTGCAGACT GCTCACTACC ACCGAGATGC CGGCCTCCCT	240
GTCTACCTGT ATGAATTTGA GCACCACACG CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:1358:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 244 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

GAATTCGGCC TTCATGGCCT AGGGGAGCAT AAAAATACAA AAAACATTTG GCTTTATTCA	60
CAACGTATTT TGTGAAAACT CAGGAATAAC TCTTTGAATT TTGGGGAAAC CAACAACATT	120
CTCAAAAACG ATGATAATCA ATTTTATTGT GCACCTCTGC ACCCTGCCTC CATGGTCCCA	180
CCACCAGGTT CCCTCTCCTC CACAGTCAGA AGTTCCTCCC TGCATTCAA CACTGGGTCT	240
CGAG	244

(2) INFORMATION FOR SEQ ID NO:1359:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 391 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

GCGATTGAAT TCTANACCTG CCTCGAGGAC CCAAATATTT CTTTGAGATC TTTCTTTCAA	60
TTCTTTTGGA CATATACTCA GAAGAGAGAT CATGGATTA TTTTTGTTT TTTCAGAAAC	120
TGCTACCGT ATTCCAAAGC AGCTGCACCA TTTCACATTC CCACCAACAT TGCATCAGGG	180
TTCCAATTTT CCCACATCCT TGTCACATT TGTATGTTG TTTTTTGTT TTTGTTTTTT	240
TTTGTTCGC TTTGTTTTGT TTTGTTTTGT TTTGTGCACA CAGTCTCGCT CTGTTGCACA	300
GGCTGGAGTG CAGTGGTACA GATCTCAGCT CACTGCAGCC TCTACCTCTC CAGTTCAAGC	360
AATTCTCCTA CCTCAGCCTC CCCGGCTCGA G	391

(2) INFORMATION FOR SEQ ID NO:1360:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 262 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

```
GAATTCGGCC TTCATGGCCT ACATTTTCTT CCTAGTATGG ATATGCTTAT TAATGCACTT    60
GTTTCAAAAT CCCAAATTGC ACAAATGTGT TAATATTTTA AGAAACAAA TGAATCCTAC    120
AAGGAGAATG ATTTTTCAGC ACACATAGGG TTGGATCTTG AGAGTGACCT ACAGAAATAA    180
AGTACTTTTA AAATAAAGTA GTCAGAGGCT ATCAAAGGG TAAAATAATC ATAGTACCAC    240
ATTGGTCCAC TTGACACTCG AG                                         262
```

(2) INFORMATION FOR SEQ ID NO:1361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

```
GAATTCGGCC TTCATGGCCT AGACAACCTG AAACCTGGATG ACATGCTGAG TGAAGTCAGA    60
GACAAATGGG ATACCATATG TGGAAAATCT GTGGAAAGGT AAAATGTTCT TTAAGACAGT    120
TTGGTTACTC TGTAAGACCTC TTCAAATAC ACAGTAATGG TGCTTTGCGG GGACATTTTCG    180
GGAACCTTAA ATATTTCTCT TGCCTGAGGA ACTTCTGCTT GTCCTAAGTA TCCACACAC    240
ATAGCACTCG AG                                         252
```

(2) INFORMATION FOR SEQ ID NO:1362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

```
GAATTCGGCC TTCATGGCCT ACATAGCAGT ACACAGAAAC TCATCTTTGG TCTTAAACT    60
GCATAGGTAC TTTAGTCCTC TGTGACAAA TGTTGGGTTG TTTCAGTCTT CTGCTATCAC    120
AAATAATGCT GCAAAGAATA CATTGTTTCA TATGTCATTT CATCCTTGGC AATTTTGCCT    180
CTGGAAAGTT CCTAGAAGTC AGATTCCCAG GTCAAAGGTT AAATGCGCAT GTAATTTTGC    240
TGGATATTGT TAAATCCCCC TACAGAGCAT GCACCACTCA GCATTCCCCT CAGCTCGAG    299
```

(2) INFORMATION FOR SEQ ID NO:1363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:

GAATTCGGCC	TTCATGGCCT	AGCGAGATCT	GCGTGAAAAA	TACAGCAATT	TTGGCAATAA	60
CTCTTATCAC	TCCTCAAGAC	CCTCATCTGG	ATCCAGTGTG	CCCACCACCC	CCACATCATC	120
CGTCTCACCC	CCACAGGAGG	CCAGGTTGGA	AAGGTCATCA	CCGAGTGGTC	TTCTCACATC	180
ATCCTTCAGG	CAGCACCAAG	AGTCACTGGC	AGCAGAGAGA	GAGAGGCGGC	GGCAGGAGAG	240
AGAAGAAAGG	TTGCAGAGAG	AGCTCGAG				268

(2) INFORMATION FOR SEQ ID NO:1364:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

GAATTCGGCT	TCATGGCCTA	CCAACCCCCC	CATTTCTCCC	TTCCTCCAGC	CACTGGCAAC	60
CACCATTTCA	TGTTCTTTT	GTTTGTGTT	TTTGTGTTT	GTTTTTTGT	TTTTGTTATT	120
ATTATACTTC	AAGTTTTAGG	GTACATGTGC	ACAACGTGCA	GGTTTGTGTT	ATATGTATAC	180
ATGTGCCATG	TTGGTGTGCT	GCACCCATTA	ACTGGTCATT	TAGCATCAGG	TATATCTCCT	240
AATGCTATCC	CTCCCCACTC	CCCCCAGCTC	GAG			273

(2) INFORMATION FOR SEQ ID NO:1365:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365:

GAATTCGGCC	TTCATGGCCT	AATCGGTGTC	TTTGGTAAAA	ATTCTATGAG	GATGACATAT	60
TCCATCATGT	TATTCGTTTC	ACATTTCCTT	TTGCTCAGTC	TCCAATGCAA	GCACAGCTTG	120
TGGTATAACC	TATTGTTTTC	CCATTCTAAT	AACTTCTCAA	TCGATCTTCG	TGTTCTTTTA	180
CTGAGGCAAA	TAAGTGGCCA	CATACTGCAA	CCTAATGTGC	AGCAGCAACA	AAGGCAGCCA	240
CAAAGTAGCC	AACGTACATT	AACAGGAAGG	TTCTTCTTAA	GACAACTGTT	AACTCTGTNG	300
ATGCTGGCTT	TAAATTCTTC	AGGAGCTACT	TTTTCAGTTA	ATGAAGAAGG	GAATTCAGAT	360
TCAAAT						366

(2) INFORMATION FOR SEQ ID NO:1366:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 245 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366:

GTTGTTAGGC	TGGTGTGTT	ATGTTGCTGT	TGTTATGCTG	GTCGTGCTGC	TCCATGTTCT	60
CCAGTGTTTC	TTCCCTTTTA	TCGTCACAGT	TACCCCGTAC	ACCTGACAAC	TGGACATCTG	120
CGCCTGGGGT	CTTCAGCCTA	AACACACCTA	AACCCCTCCAC	CAAACCCCTC	TGCTTCCGCC	180

TCCCCGTGTC TGTGAGCGCC TCCACTGCCC ATCCCTCTGC TCAGGCCCA TTTCCAGGGC 240
TCGAG 245

(2) INFORMATION FOR SEQ ID NO:1367:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 217 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367:

GTATTTTGT GACTGAAGTC ACCTTCTAAA TAATTCTAG AATAAAATTT TTATATTGAA 60
 GAAGTTGGTC TTAACCATTT TTTTTCAGG AGCATGCATT TTGAAATCAT TCTGTGGGAA 120
 GATGAAAACA AATTTAGTTC TATGTCTCCC CTTTITAGAG ATGTTGACAC TTCCTTAAA 180
 TGTACCATGC ATGATTGTG TACCACCAG ACTCGAG 217

(2) INFORMATION FOR SEQ ID NO:1368:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 289 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368:

GGCTAGAAGC AAGATGGCTG AACTCAATAC TCATGTGAAT GTCAAGGAAA AGATCTATGC 60
 AGTTAGATCA GTTGTTCCCA ACAAAGCAA TAATGAAATA GTCCTGGTGC TCCAACAGTT 120
 TGATTTTAAT GTGGATAAAG CCGTGCAAGC CTTTGTGGAT GGCAGTGCAA TTCAAGTTCT 180
 AAAAGAATGG AATATGACAG GAAAAAGAA GAACAATAAA AGAAAAAGAA GCAAGTCCAA 240
 GCAGCATCAA GGCAACAAAG ATGCTAAAGA CAAGGTAGGG AGTCTCGAG 289

(2) INFORMATION FOR SEQ ID NO:1369:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 230 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369:

GCGATTGAAT TCTAGACCTG CCTCGAGTGT TTTTITAAAA CTCTCTCTCT TCACTGACAC 60
 CAGGTGTTGC TATTAATGTG CTCAAATCTC TCACTTATAA AAAAGAATAA AACCTCTCTC 120
 TTTTCTAGTT ACTGGTCTGT TTATCTTTT GTAGAATGAT CTTTGGGAAG AGTGTITTTCA 180
 TTTATCCAG TCTCTTCATC TTTTATTCCT TAGTGCACTG TCATCTCGAG 230

(2) INFORMATION FOR SEQ ID NO:1370:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 254 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370:

GAATTCGGCC TTCATGGCCT AAACAAACAA AAAGAAGAAA ACACTCAACA AAACCAATCT	60
ACATGTTTTG GACTAAAAAA AAAAATAGAG GTTGATTCT CAGTGTCCGA CTCGGAATTA	120
TGTTGCTGCC TCTCTGTGCT TTTGGCCTCT GTGTGGCCGT GTTTTGCCAG CATGAGATAC	180
TGTCCCCTCT GGAGGATTTT AGGGGAGGAA GAGCCACGTC CCCAGGGATT GGAGGAGGCT	240
CCGGCACCCCT CGAG	254

(2) INFORMATION FOR SEQ ID NO:1371:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 276 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:

GAATTCAGCT ACACTTGAGT ATTAGGAAGC CATATAGAAT TCGCAGGGTC CAACTTCATA	60
GACTCTATTC ACATTATTAG AGTAGTAGTG GGGACCGTTA CTTTGGGAA AGGATCAGTG	120
AGACAGTATA AACTTTTGAA ATAATACATT TTTGTATTCC AGAATTATTA GATAATACTA	180
AAGCAAACCT TTTTAATGGA ACATTTTGAA GTCCTGTGTA TTTATTTTAA TTTTATTATT	240
TTGTTGAGA CAGAGTTGCA CTCACGCACG CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:1372:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 249 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:

GAATTCGGCC TTCATGGCCT ACTCGAATCA TAGTGATTAA AATAGTTGGG GTAAAGTTGT	60
AGCTTATATG CAATACTACT TGGAGGAATT CTTCTACTAA TTTGTATTTA ATGTGGAAAT	120
TGTATAGTTT CATTGATTTA ATCATAAATA ATGGAAATGG TCTCCAAGAA GTTTTATTTT	180
TCATTTTTTT GCTTATACAC TCTGATTCCT ATAATACAGT GCTATAAGCT ATGCACAGAA	240
AATCTCGAG	249

(2) INFORMATION FOR SEQ ID NO:1373:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 218 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

CCCGTTGTCA ATCTTTGGGT TTTATTCCTT TTTAAGAAAG AAAGAAGTTC TGCTGAATTT	60
GGAAATAAAT TCTTTATTTA AACTTTCCTT CCCAGTTTTA TAGTTTCTGG TTCTGAGGAC	120
TGATGAAAAT CATCTTCCAT CAGCAGATTT TCTTGCACTG TTTGCTGTGC CCCTCAAATA	180
TAATGTCTTG GGTTTAAGA TCGAGCAGAG AGCTCGAG	218

(2) INFORMATION FOR SEQ ID NO:1374:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 139 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

GAATTCGGCC TTCATGGCTT GGGTCTCTCT TTTCCATTTC TGCTTCTTGT TCTCCAGAT	60
CTTCCCCAAA ATAAGCTCAG TGCCAGAAC TTGTGTGGCT TTGGGATATT CCACTGCCCG	120
GGCAACAGGC AATCTCGAG	139

(2) INFORMATION FOR SEQ ID NO:1375:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 264 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

GAATTCGGCC TTCATGGCCT AGCAAGACGC AGCAAAAGTG GAACTTCCAA GATACTAATC	60
TGAGAAGTTT TCAACAAGAA ACAGGTTTAG AATTAAAAAT CAAAACCTCT TTTAATTGTA	120
TTAAGAGTAA ATCATATTTT AAGACAACCT TCTTTTAAAA CAAGGGACCA AAATTTAGAA	180
AGACTTTTAT AAATAATTTT AATTATAGCC AACTTAATCC CACACAAAAT GCTTTTCATA	240
AGTATTCTCT CACAAACACT CGAG	264

(2) INFORMATION FOR SEQ ID NO:1376:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 250 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376:

CTTAAACCCA GGAGTTAGAG ACCAGACTGG ACAATATAGC GAGACCTCAT TTCTAACCCC	60
CAAAAAAATA TACACACGCA CACACACACA CACAAACACA CACACACACA CACGCATGCA	120
AACTATATTA AAAAAACGGT CATGCTGCAT GGTTTTTTAT TTGTGTTATT TTTATTGTTG	180
TAATGTTACT TTATTTTCTA ATATTTTCTG TTGCGGTTG GTTGAATCCT CAGCTGTGGA	240
ACAGCTCGAG	250

(2) INFORMATION FOR SEQ ID NO:1377:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 285 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:

```
GAATTCGGCC TTCATGGCCT AATTCCCT TCTCTTTT TTTGGTTT GGTTAATTG      60
TAATTTTGGT TTCGTCCTGA TGTATATGGA CTGCCAGAAT AGGGGGGGTG GTGGTTTGT      120
CGTGGTGTCT GGGGGAGGAA GGAATCCTTA CCCTGGCTTC CTTAATCGGG GAAGGCTTCC      180
TGAAGGAGGT GGGCTCAGAG GTGAGTTGTG AATGAAGCGG GTAGGGAGTG GGCTGGGTGG      240
ATGTTTGGG GATGTTGGG GGAGGTGAGT AAAGGGTAAC TCGAG      285
```

(2) INFORMATION FOR SEQ ID NO:1378:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 384 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378:

```
GAATTCGGCC TTCATGGCCT AGAAAGAGCA AATATAATGA AGACTTTGAA AGAGCTTGA      60
GAGAAGATCT CACAATTAAG AGATGAATTA AAAACATCTT CTGCAGTCTC CACACCATCT      120
AAAGTGAAGA CAAAAACGGA GGCCCAAGAG GAGTTATTAG ATACTGAACT GGACCTCCAC      180
AAGAGGCTGT CCTCAGGAGA AGACACCACA GAATTACGGA AAAAAGCTCAG TCAGTTACAG      240
GTTGAGGCTG CACGGTTAGG TATTTTACCT GTGGGTCGAG GAAAGACCAT GTCCTCTCAA      300
GGTCGAGGAA GAGGCCGAGG GCGTGAGGGA AGAGGAAGGG GCTCACTAAA TCACATGGTG      360
GTGGACCATC GTCCAAACT CGAG      384
```

(2) INFORMATION FOR SEQ ID NO:1379:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 370 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:

```
GAATTCGGCC TTCATGGCCT AGTCAGGAAC TCCAGTTTGC TTTTCTGTTT TGTGCTCTGG      60
TAGCAGCTGT TGAGTAACTT TCATTGGAGG TTGGGAAGGA AGTGAGGAGA AAGTGTTCCT      120
GTTTAGTGTT TTATTTCCCTA TAATAGGATG CTGCCTAACC CAGTTCATCT CTATGCTCTG      180
TTCACCTGAAT ATTCCGGGTA ATTGAAAGAA AATATAATGG ATGGGCTCCA TTAAACCAG      240
CTCAAAAATA AATTCTTGTC AGTAAAGATT TCTTGTCAG ATGTCTTGGA TTGCACTTTT      300
GTTGAGGAAA GACAGTGTAA ATAGTTAAAG AATGTTGATA AAATTGAAAC ATTTGGGCCT      360
TCATGGCCTA      370
```

(2) INFORMATION FOR SEQ ID NO:1380:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:

```

GAATTCTAGA CCTGCCTCGA GTTGCTGAAC GGTTCAGATC CTCAAAAAAT AAAGCAATTG      60
AACCTGGCCA TGATTAACTA TGTNTTGGTC GTCTATGGAC TTGCCATTTC TCTCCTTGGA      120
ATAGGACAGC CTGAGGAATT ATCTGAAGCC GAAAACCACT TTAAGAGGAT TATTGAACAC      180
TACCCCACTG AGGGCCTTGA TTGCTTGGCC TACTGTGGAA TTGGAAAAGT ATATTTGAAA      240
AAAAACAGAT TTCTAGAAGC TCTCAATCAC TTNGAGAAAAG CAAGAACCCTT GATTTATCGT      300
CTTCCTGGAG TGTAACTTG GCCCACGAGT AATGTGATTA TTGAAGAGTC TCAGCCACCC      360
CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1381:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 472 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:

```

GAATTCGGCC TTCATGGCCT ACTTTAATGA GATAGGAACT AGTATATTCA CCGTCTATGA      60
GGCCGCCTCA CAGGAAGGCT GGGTGTTCCT CATGTACAGA GCAATTGACA GCTTTCCCCG      120
TTGGCGTTCC TACTTCTATT TCATCACTCT CATTTTCTTC CTCGCCTGGC TTGTGAAGAA      180
CGTGTTTATT GCTGTTATCA TTGAAACATT TGCAGAAATC AGAGTACAGT TTCAACAAAT      240
GTGGGGATCG AGAAGCAGCA CTACCTCAAC AGCCACCACC CAGATGTTTC ATGAAGATGC      300
TGCTGGAGGT TGGCAGCTGG TAGCTGTGGA TGTCACAACG CCCCAGGGAC GCGCCCCAGC      360
CTGCCTCCAG AAAATGATGC GGTCAATCCGT TTCCACATG TTCATCCTGA GCATGGTGAC      420
CGTGGACGTG ATCGTGGCGG CTAGCAACTA CTACAAAGAA GAAAACCTCG AG              472

```

(2) INFORMATION FOR SEQ ID NO:1382:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:

```

GAATTCGGCC TTCATGGCCT AGAGTTTAAC CCAGAACTGG TGCTGGTCTC AGCTGGCTTT      60
GATGCTGCAC GGGGGGATCC GCTGGGGGGC TGCCAGGTGT CACCTGAGGG TTATGCCAC      120
CTACCCACC TGCTGATGGG CCTTGCCAGT GGCCGCATTA TCCTTATCCT AGAGGGTGGC      180
TATAACCTGA CATCCATCTC AGAGTCCATG GCTGCCTGCA CTCGCTCCCT CCTTGGAGAC      240
CCACCACCCC TGCTGACCTG GCCACGGCCC CCACTATCAG GGGCCCTGGC CTCAATCACT      300
GAGACCATCC AAGTCCATCG CAGATACTGG CGCAGCTTAC GGGTCATGAA GGTAAGAAGAC      360
AGAGAAGGAC CCTCCAGTTC TAAGTTGGTC ACCAAGAAGG CACCCCAACC ACCCAAACCT      420
CGAG

```

(2) INFORMATION FOR SEQ ID NO:1383:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383:

```

GAATTCGGCC TTCATGGCCT AGGCAGCGGC CTCTGTCCCA GGGCCCGGGG TGCCAGCGTC      60
CTGCGAGCAC CCAGCTGACC AAAGATGTTT CCCTCTGTAG AAGACTCTGC TAGACTGGGT      120
CTGAAGCTTG AGTTTTCTAA CAGGTGCTGC TGCACAGGTG GAAAGGAGCC GTGGGAATGT      180
GTGTGTGGCA CGGCCCAGAC AAGGGCAGGG CTGAGGGCCT CCGACTCAGC TGGGGGTAGA      240
CGGGCTCGAA TGTGGCCTGG GAGAGCCTAG GGGGCCCCAG GGGTCTGCTT TTCTATGTGA      300
GCCTTTAAAC TTCAGACAGG CCACCACCCT GCACCTGCAG GGGCTTTGGC ACAGGAGTGC      360
TGGCTTTGGA GGGACTGTGG CTTTCATCGT GGTCTCTGCG CCACACCTCC ACGCACACAG      420
ACAGTGCCCT AGGAGGGGAA CAGAACTAAT TACGAGGGGG AGGCAAGAGG ACGCCAAGCA      480
AGGAGTGA CTGAGG      494

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(2) INFORMATION FOR SEQ ID NO:1384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 460 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384:

```

GCTCGAGAGT GGGGCGTGCC AGTGTGTGCC TGTAGTCCCA GCCACCTGGG AGGCTGAGGC      60
AGAAAAATTG CCTGAACCCG GGGGTGCGAG GTTACAGAGA GAGACTCTGT CTCCCCAAAA      120
AAAAAAAAAA AAAAAAAAAA NNGTCTAAGG GTTANACAAT TCTGTATAAA ATCTCTCCAC      180
AATACATTCA GAAATCTACT TTTGCTGTTG GAGTTGTATC TGAGAGCTGG GGAATTTAAA      240
ATTGCTGAAA ACAGATATAA GGGGAAAGTG ACATAAAAGC AGAAGCTGCC AAAAGGAGGT      300
ATTAGCATCA TCCTCAATTT ACACAGAATC ACATGCTAAG AGAGGCTAAG TATCTTTCCC      360
AAGATTACTC AGCCAAGTTG TGAAGCCAAG ATTTAACTGT ATCTATTCAA CTCTTATCTA      420
ATTATAAAAG CCTATGTTAT TTCCCACTGT GCTACTCGAG      460

```

(2) INFORMATION FOR SEQ ID NO:1385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 501 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

```

GCAGGAGTAT CTGAGGATGG AGAACTCAGC ATAGAAAACC CCTTTGGTGA AACATTTGGA      60
AAAATACAAG AAAGTGAAAA AACTCTTATG ATGAACACAT TATATAAGCT TCATGATCGA      120
TTGGCACAGC TTGCAGGAGA TCATGAATGT GGCAGTTCTA GTCAAAGAAC GCTTTCTGTT      180
CAAGAGGCAG CTGCGTATTT AAAAGATTTA GGTCTGAAT ATGAAGGTAT ATTTAACT      240

```


TCATTGCAGT GGATCTTAGA AAATGGAAAA GATGTTGGAA TAAGGTGTGT TGGTTTGGC	300
CCTGAGGAAG AATTGACAAA TATAACTGAT GTGCAGTTT TACAGTCCAC AAGACCACTG	360
ATGTCTTTT GGTGTCGTT TCGACGTGCT TTTGTTACTG TAACTCACAG ATTATTGTTG	420
TTATGCTTAG GTGTAGTGAT GGTTCGTGTC GTTCTGCGTT ACATGAAATA TCGATGGACA	480
AAAGAAGCGG AGGATCTCGA G	501

(2) INFORMATION FOR SEQ ID NO:1386:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1386:

GAATTCGGCC TTCATGGCCT ACTCCAAGAG GCAGTTCTAC ATCAAGATCT CAGACGTGCA	60
GGTGTTTGGG TATAGCCTGA GGTTCACGC CGACCTCCTG CGCAGTGCAG TGCAGCAGGT	120
CAACCACTCC TACACACAGG GCGCCAGTT CTATTCCTCT TCGTCAGTGA TGCTCCTCTT	180
GTTGGATATT CGGGACCGAA TTAATCGCCT GGCCCTCCT GTGGCCCCCG GGAAACCCCA	240
GCTGGACTTG TTCTCCTGTA TGCTGAAACA CCGCCTGAAA CTGACCAACA GCGAGATCAT	300
CAGGGTGAAC CACGCCTTGG ACCTGTACAA CACGGAGATC CTCAAACAGT CGGACCAGAT	360
GACAGCCAAC ACTCGAG	377

(2) INFORMATION FOR SEQ ID NO:1387:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 538 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1387:

GAATTCGGCC TTCATGGCCT AGACGACGCC TATGAAGCCC TTAGTCCTTC TAGTTGCGCT	60
TTTGCTATGG CCTTCGTCTG TGCCGGCTTA TCCGACATCA AAGGGATCAA AATTTAAGGA	120
GCTAGTTACA CATGGAGACG CTTCAACTGA GAATGATGTT TTAACCAATC CTATCAGTGA	180
AGAAACTACA ACTTCCCTA CAGGAGGCTT CACACCGGAA ATAGGAAAGA AAAAACACAC	240
GGAAAGTACC CCATTCTGGT CGATCAAACC AAACAATGTT TCCATTGTTT TGCATGCAGA	300
GGAACCTTAT ATTGAAAATG AAGAGCCAGA GCCAGAGCCG GAGCCAGCTG CAAAACAAAC	360
TGAGGCACCA AGAATGTTGC CAGTTGTTAC TGAATCATCT ACAAGTCCAT ATGTTACCTC	420
ATACAAGTCA CCTGTCACCA CTTTAGATAA GAGCACTGGC ATTGAGATCT CTACAGAATC	480
AGAAGATGTT CCTCAGCTCT CAGGTGAAAC TGCGATAGAA AAACCCGAAG CACTCGAG	538

(2) INFORMATION FOR SEQ ID NO:1388:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:

GAATTCGGCC	TTCATGGCCT	ACCTATTTTC	CATATTCCGT	GTGACTCATA	ATGTACTCCT	60
GCTGTGCTG	ACGGGCAGTG	GTCCGTCAGA	GCAGAAGCTC	AGCTGTGATT	GCTGGGGGAG	120
TTCTGAGCTC	CATGAGCCAC	TCTGGCCACG	ACACCATCTT	TACTTGAAAG	AAAAACTTCC	180
CTTTGATGCT	GAGGCCTCCA	GTGTCATAGA	CGATGCCTTT	GCCCACCCAG	GCGATGGTCT	240
GCGTGGCTCC	ATCTGGGGTG	TGGCTGAGGA	CGGCCAGGGC	TGGGGGATGC	AGGGCGGCCTT	300
TGCCAACCCC	ATAGATTCTT	CCAAATCCTC	TCGTCTTCAG	TTCCTCATCC	CGGATGATGG	360
TTGGGATGAT	CCCCAGCTCC	TTTCCAACCT	TGTTAATCTC	CTCGAG		406

(2) INFORMATION FOR SEQ ID NO:1389:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

GAATTCGGCC	TTCATGGCCT	AAATTAACCT	TAATGGGCAA	TCATAAGAAT	AATTGAAAAT	60
AAGGAATTCA	GGGGAGCTTA	ATTCATTTGT	AGGTTTtagg	TGATACCATT	GCTATTcaga	120
TTGCTTTGGG	CAATTTATGT	AATTTTTTCC	AATGACATCC	AATTTcATAT	CACTGTAACT	180
GAAGAAACAG	AAAATTTAGT	TCAGATTTTA	AATCATCATT	CCCTGATGCC	ACCTCATCCA	240
ATGATGTTTC	ATAAACGATG	AAATCACGTA	AGAACCACCT	AAACCAGGAC	TGATAGTCTA	300
TTGCTAGAAA	CTTGAATAAA	TTTCCACTGA	TTTCTGTTTT	CACTGGAAAC	AGAACAGAGA	360
CTCCTCGAG						369

(2) INFORMATION FOR SEQ ID NO:1390:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

GAATTCGGCC	TTCATGGCCT	AAGACCAAAA	CTAAACTGAA	ATTTAAAATG	TTCTTCGGGG	60
GAGAAGGGAG	CTTGACTTAC	ACTTTGGTAA	TAATTTGCTT	CCTGACACTA	AGGCTGTCTG	120
CTAGTCAGAA	TTGCCTCAAA	AAGAGTCTAG	AAGATGTTGT	CATTGACATC	CAGTCATCTC	180
TTTCTAAGGG	AATCAGAGGC	AATGAGCCCG	TATATACTTC	AACTCAAGAA	GACTGCATTA	240
ATTCTTGCTG	TTCAACAAAA	AACATATCAG	GGACAAAGCA	TGTAACCTGA	TGATCTTCGA	300
CACTCGAAAA	ACAGCTAGAC	AACCCAACTG	CTACCTATTT	TTCTGTCCCC	AACGAGGAAG	360
CCTGTCCATT	GAAACCAGCA	AAAGGACTTA	TGAGTTACAG	GATAATTACA	GATTTTCCAT	420
CTTTGACCAG	AAATTTGCCA	AGCCAAGAGT	TACCCAGGA	AGATTCTCTC	TTACATGGCC	480
AATTTTCACA	AGCAGTCACT	CCCCTAGCCC	ATCATCACAC	AGATTATTCA	AAGCCCACCG	540
AGCTCGAG						548

(2) INFORMATION FOR SEQ ID NO:1391:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 178 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

```

GTTTATTTTC ATCATCTACA GAACCAAACT CCCTTTCATG TGCACGAGTG AGAATCTCTT      60
TGTACAGTGT TTCTGCTTGC TTGAACTTTC CTTGTTTCAA ATAGCAGGAT GCCAGGTTAT      120
TTTTCGTCTT AGCCACGTTG GGGTCATCAG GTCCAGTTT TGTCTGGTAG ATCTCGAG      178

```

(2) INFORMATION FOR SEQ ID NO:1392:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:

```

GAATTCGGCC AAAGAGGCCT AGGGCCCTAT ACCTCCAGCC GTGAATGCCA GACTTTAAGA      60
TTGCCCCGAG GAAGCAAACCT CTTCGTATAA AAAAAGCAGG CCATCTGCTT AACCCCTGGC      120
TCCACCATAA GGCACCTGGA CTCGGATTTC TCTATCTGAT AGAGGTATTT TCTGTGGCCC      180
TGGGAGCTGT CTGTCTTTCC CCTACCCCCA AGGATGCCAG GAAGACGTCC ACCATTAGCC      240
ATGTGGCAAC CTTACTTCT ATGCCTCACA AGTGCCTTTC AGAGAGCCCC AATTCTGCTT      300
TCCCACAAAA TAAACCCAAT GCACTCGAG      329

```

(2) INFORMATION FOR SEQ ID NO:1393:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:

```

GAATTCGGCC AAAGAGGCCT ATTCCTTTCC TTTCCCTTT GAGATTTTTT TGTTGTTGTT      60
TCCTTTTTGT ATTTTACTGA TATCACCAGG ATAGTTTACT CTCCTTCTAG CTTTCTGCTT      120
ACCGCACACT GGATAACACA CACATACACA CCCACAAAAA TGCTCATGAA CCAATCCGG      180
AGAAGGTTCC AGCAGTCCC CCACCCTCCC CTCCTCCTCC TACTTCTCCT CTTGACAGCG      240
AGGACAGGAG GGGGACAAGG GGACACCTGG GCAGACCCGC CGGNTCTCCC CCCACCCAC      300
CCCGCCCCTC GCATCATACT CGAG      324

```

(2) INFORMATION FOR SEQ ID NO:1394:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:

```

GAATTCGGCC AAAGAGGCCT AACTGCAACG GAGAGACTCA AGATGATTCT CTTTTTACCC      60
ATGTTTTCTC TACTATTGCT GCTTATTGTT AACCTATAA ACGCCAACAA TCATTATGAC      120

```

AAGATCTTGG	CTCATAGTCG	TATCAGGGGT	CGGGACCAAG	GCCCCAATGT	CTGTGCCCTT	180
CAACAGATTT	TGGGCACCAA	AAAGAAATAC	TTCAGCACTT	GTAAGAACTG	GTATAAAAAG	240
TCCATCTGTG	GACAGAAAAC	GACTGTGTTA	TATGAATGTT	GCCCTGGTTA	TATGAGAATG	300
GAAGGAATGA	AAGGCTGCCC	AGCAGTTTGG	CCCATGACC	ATGTTTATGG	CACTCTGGGC	360
ATCGTGGGAG	CCACCACAAC	GCAGCGCTAT	TCTGACGCT	CAAACTGAG	GGAGGAGATC	420
GAGGGAAAGG	GATCCTTCAC	TTACTTTGCA	CCGAGGCTCG	AG		462

(2) INFORMATION FOR SEQ ID NO:1395:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395:

GAATTCGGCC	AAAGAGGCCT	AGAACTGCCA	TCATGAGGTC	TGACAAGTCA	GCTTTGGTAT	60
TTCTGCTCCT	GCAGCTCTTC	TGTGTTGGCT	GTGGATTCTG	TGGGAAAGTC	CTGGTGTGGC	120
CCTGTGACAT	GAGCCATTGG	CTTAATGTCA	AGGTCATTCT	AGAAGAGCTC	ATAGTGAGAG	180
CCCATGAGGT	AACAGTATTG	ACTCACTCAA	AGCCTTCGTT	AATTGACTAC	AGGAAGCCTT	240
CTGCATTGAA	ATTTGAGGTG	GTCCATATGC	CAGAGGACAG	AACAGAAGAA	AATGAAATAT	300
TTGTTGACCT	AGCTCTGAAT	GTCTTGCCAG	GCTTATCAAC	CTGGCAATCA	GTTATAAAAT	360
TAAATGATTT	TTTTGTTGAA	ATAAGAGGAA	CTTTAAAAAT	GATGTGTGAG	AGCTTTATCT	420
ACAATCAGAC	GCTTATGAAG	AAGCTACAGG	AAACCAACTA	CGATGTAATG	CTTATAGACC	480
CTGTGATTCC	CTGTGGAGAC	CTGATAGCTC	TCGAG			515

(2) INFORMATION FOR SEQ ID NO:1396:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396:

GAATTCGGCC	AAAGAGGCCT	AGTCCTTCAC	TAGACTATAT	GCATTTTATC	TTACCTTATT	60
CCTCATTTTA	GTGTCCAGTG	GCTGGCGTGT	ATAAACCCCTG	AATGTTTTTA	AAGATAATAT	120
TTTAAAAGAT	CACTTTAGTT	ATAATACGGC	TTCAGTTGGT	GGAATAAAGA	AATTTTTTTC	180
TTTTTTTTTA	TTTTGAGTAA	AAATGATAAC	TTCTCTCCAC	CCTCTCTATA	GTAAAGCCT	240
TCCATCTGAA	GTATGATGAA	GTTCTGCTGG	ATCCAAATGT	TCAGAAATGG	GATGTNACAG	300
TATTAGAACT	CAGCTATCAC	AAACGTCAAT	TGGATAGACC	AGTGTCTTA	CGGTTTTGGG	360
AAACATTGGA	CAGGTACATG	GTAAAGCATA	AATCGCACAT	CTCGAG		406

(2) INFORMATION FOR SEQ ID NO:1397:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397:

```

GAATTCGGCC AAAGGGGCCT AAGAATAGCA AATATCTTGT GCTTAGCAAA AAATAATCTT      60
GAAAAATTTT TCTGAAATAA ATGTTATTGA AAAATGCAAA TAATTAGAAT TAAATACCAG      120
CTGCAGTTCT ACATCCTCTT ATTGGCCAAT GTAAAGAGAA ATCAGGCATG TTAAC TCAA      180
AAAAGGACAA TTCAACAACA TGGAAACCAT GACTAATATA TGGAGAATAC AAAGAAAGAC      240
TAAAGATTTA GATCAGGCTA ATTTCTTTT ATTCCCATCA AATCCAAGTA CCACTCGAG      299

```

(2) INFORMATION FOR SEQ ID NO:1398:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398:

```

GAATTCGGAC AAAGAGGCCT AGGAGAGGCG GGAGCCTGGG AGAGCCTCTG CTAGACCTTT      60
CCTGGCACTT CCCAGGAAA GGCAAGGCAG GGCAGATGTG CGGCTGGCCA GCTGGAGTGA      120
TTTCCATGGG CTCCAAGCTG TAGGAGTGGT CCCTGGCTGC CAGAGTGCTC TGGCCAGATA      180
CAGGTGGGCT CTGGACTGGT GAGGCTGCAT TGCGGAGGCG CGCACACCCA GCTGGGCCCT      240
TATCTGTAAG GACTGGCTGG CCTGGGAGGG GCAGTCTCCC ANCCAGAANG TGGAATTTT      300
TTTTTTTTT TGAGATATCA AAACATCCTA AGGTACAGGA AAGAAATTGT CNACACACAC      360
GGCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1399:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399:

```

GAATTCGGCC AAAGAGGCCT ATTTTTTTGG AGATGTTGAT CAGATGTTCA CTGATAAACT      60
TGAGCCCCCT TTTCTTCCTC TGGTCTACCC ATCTAGAATG CTATGACCCA TCTCAGACAC      120
ACCCCTCTGG GAAGCTGCCT GAGCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1400:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 599 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:

```

GAATTCGGCC AAAGAGGCCT ACTCGATGGA GATAAGTGTT TTAATTACTT TTTTAATGTC      60
TGTGCTTTTG TATTTTCTC CTCTCTTCC TTTTATTTC TGCTGTNGAG ATTACTGCCT      120
CATCTCCACA GCAGGTGGCT GTTGCAAATT TGTTTCTTT GTAAGCCTGG AAGATTTATT      180
TTGTAATATA ACTGTTCTT TTAGTATTT TATTATTAAT GATTTCTTTA CTTTGGGATA      240

```

TAGTGTACTT ACACAGTCCT AACAGTAAT TTCCTAACAC TATCTAAGAA CTCCAATCAT	300
TAAGAAAAAA AATCTTTGCC TGAGGCGTAT TGTGAGAT TTTTGCTTAC CCTTACTTCA	360
CAATGCGGGG ATTAAATTTT AAGGAAATTG TTTTATAGCA AAAGCCAAAT GAGAAAAAGA	420
AACAGAGAAA ATAGAAGGGA GGGAAATAAA GAAAAGGAGA AGAGAAAAGG CTCAAGAGAC	480
AAAGTATACT TTAATAAATA ATACCATAAA GCAGAGTAAT GAGGATAAAT TTATGGCTGA	540
AATATGAAAT TACATTAACA TCTTTTCTAG AAATGTTTCA ACTAAACCAA ATGCTCGAG	599

(2) INFORMATION FOR SEQ ID NO:1401:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401:

GAATTCGGCC AAAGAGGCCT ACAGTCACCC TATAAATAG ATTAAGTGTT CCGAGTTCGG	60
TTGGGTTTTT CGCAATTAAA AATTGTGTTA ACAGTTTAGT GTTCTTACA GATAACACTG	120
ATAACACTTT TTTGTTTTCA TTGGGTCTTA TCATTGGTAC AGACTGATCC AAAAATCCAA	180
TTGGCTTGCT AGTAATTTTT TCCTGTGAAT TGCTAAGATT TATGGGTAAA TTAAATTTTC	240
TTTTTCTTTT CTTTTTTTTT TTTTAAAGCA TTTGCTCCTT AAATGCAAAT TM CGTACCACTA	300
AGATCCTCTC ACAACAGATT AAGGTCGAAT TTGCAGAGAC ACTCGAG	347

(2) INFORMATION FOR SEQ ID NO:1402:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1402:

GAATTCGGCC AAAGAGGCCT ATATAAATC AACTTTTCTT TGTCTCTCTT GCCTGTGATG	60
AGTAACAGAA ACCATCTTCC CAGAACTAT CCCCACCCAC CCCCAGCCCA GCCCGAGCAG	120
CCCAGACCCA GGAAGGAGGT CAGAGCCTGC GTGACTGTGT GGCAAGGATC CCCCTCAAAG	180
CAGGCAGTGA TCCCCCTCAA AGCAGGCAGT GATGACCAGG CTCCCCAGGG GAAGGAAAAA	240
TGGTTGATTA CCCCACCTCA CTTTCTCAAG TTCCTGAAAG CCTCCCATCT TTTCAGGATG	300
TTTTCTTCT GCTTCCTTC TGGGGTGATA TTGCAATGCA TGTGTCAGTC CCTCGAG	357

(2) INFORMATION FOR SEQ ID NO:1403:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403:

GAATTCGGCC AAAGAGGCCT AAGGATTGTC ATAGCCAGGA CCACACTATT GCTTTTTTCAT	60
AACATTTTCT TTTGTTTCT TTCTTTTGAA TTTCTTACAG GGCTGCAAAG TATGCCAGGG	120

GAGTATGTAG CCCGGGGTGG TCCAATGGGT GTGAGTATGG GACAGCCAAG TTATACCCAA	180
CCCCAGATGC CCCCCCATCC TGCTCAGCTG CGTCATGGGC CCCCCATGCA TACGTACATT	240
CCTGGACACC CTCACCACCC AACTCTCGAG	270

(2) INFORMATION FOR SEQ ID NO:1404:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 129 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1404:

GAATTCGGCC AAAGAGGCCT ACAGCCTTTC TTCCCACTTT TAACTATAGA ACTTGCTTTT	60
AATTTCACTG ATATATGGAC ACAGTCAGAC GAGAACTCCT TCATGCTCCT ATTACCACAG	120
CTACTCGAG	129

(2) INFORMATION FOR SEQ ID NO:1405:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1405:

GAATTCGGCC AAAGAGGCCT AATTGCTTAA GCTCCTCAAG TTCTTTTAT TAAGAGTTGT	60
AAGTAAATT TAATAACAA TAACATAGTC TCTGCTATTT TGATCCTGC TCTTGCCAT	120
GCTGTTTAC TTATTCTTA TTGCATGTTT CACATCTATC AATTTTGGGA TATGCTTCTC	180
ACCTTCCTA CTAATGTG AGCTCCGTAA ACGCAACAGC TACCTCGAG	229

(2) INFORMATION FOR SEQ ID NO:1406:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 398 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1406:

GAATTCGGCC AAAGAGGCCT AGTGGAGGTA TTTGAAAAT ACAATTTAAC TACAACAACA	60
TTTGCTTATT TTTAGAGTCT TTTATGACAT CAAGAGAAAT GATCCAGAA AGAAAAATC	120
AAGAAAAAGA ATCTGATGAT GCCTTAACTG TGAATGAAGA GACTTCTGAG GAAAATAATC	180
AAATGGAGGA ATCTGATGTG TCTCAAGCTG AGAAAGATT GCTACATTCT GAAGGTAGTG	240
AAAACGAAGG CCTGTAACT AGTAGTTCTT CTGACTGCCG TGAAACAGAA GAATTAGTAG	300
GATCCAATTC CAGTAAACT GGAGAGATTC TTTCAGAATC ATCCATGGAA AATGATGACG	360
AAGCCACAGA AGTCACCGAT GAACCAATGG AACTCGAG	398

(2) INFORMATION FOR SEQ ID NO:1407:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 131 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:

```
GAATTCGGCC AAAGAGGCCT AGTAAAAGTG TCTGATCTGA AACATAATAC CCTCCCTTTT    60
CAATCCTGAT GTACCTTCTT CTAGTCTTGG TCTTTGGCAC CTTTTTTTCA AGAAGAAACC    120
ATACTCTCGA G                                     131
```

(2) INFORMATION FOR SEQ ID NO:1408:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 622 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:

```
GAATTCGGCC AAAGAGGCCT AAGTCCAGGC TGTAGGGTCC CTGGTCACAG AGGACCCGGG    60
TCACCCGGGA CTCATCTTTC ACTTATTGTT TTTCAAGTCC AGGGCCCCAT GGATGCCACT    120
GAGATGATT CAGATGTTAC AGTCATCAAG AGGGATTGGG GCCGCATTCT GCCTCATTCC    180
TTGGCTTTTG AAATCAGAGA CGACATTTTC ACTTTAAACA AACCCAAACC ATTCTGCTG    240
GTGGAGGATT TCTCCTGCAT CTCGGGGGTG GATTTTCACT GATTTATGTC TGCAGCGTGA    300
GCAGTCTCTG GGCTTTTCTG CAGCTCCAGA TGTTAGATGT TTTATCTCTC CGTCTTTTAT    360
CNGCTTCAGT CCTTGCCCCA GTCTATCCTC GCATGCTCCN TCCTNNGGGA GGGCTTCCTG    420
TCTTCACAGC CGCACCTTCC TCCCACTGCT ACCAGTGCCA TGGACCCACT GTATGTTTCC    480
TGGGGGCCAT GCAGAAGGTC CCCAGACCAG TGCTGGCCTG CGACAAATAA GTACAGAAAT    540
GGAGAATAAC CCCTTTCAAA CACATAATAG CATTTGATAG AATCAATCAG GAGACTCAAG    600
TTTTTACTGC GTGCGTCTCG AG                                     622
```

(2) INFORMATION FOR SEQ ID NO:1409:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 328 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:

```
GAATTCGGCC AAAGAGGCCT AGAACATGCA GATTTTTCCT CTAGAAAACC CCCTCCCCAC    60
ATTACAGTTA TTAGAAATCC TTAACAGCAG GTAACCACCA ATGCTCCTGC CTTCTAGCCA    120
CAGTCTGCTC CTGCCCCCTAC AGGCTTTGAA CATGCAGATT TTTCTCTAG AAAACCCCCT    180
CCCTGCATAT TCTCTCCTCT CCCCCTCAC ACAAACACCT GGCCCTGCCAG GCCCCGTGGG    240
GCTGCCGGGC TTCTGTGAAC CTGCCGCCTG CCTTGGAGCT TCGGCCTATG CCTCTGCCCC    300
CCTTACAGAG CCTGGATCCA AACTCGAG                                     328
```

(2) INFORMATION FOR SEQ ID NO:1410:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 324 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1410:

```
GAATTCGGCC AAAGAGGCCT NNAAAAAAAA AAACCAAAAA AAAAGAAAAA GCTGACACAG      60
TTCTCTGAAA AAAGCCTAGA GAACACAAGG GTGACACAAA CTCCAGAGAG TATGCTGCTT      120
GCAGCTTTGA TGATTGTATC AACAGTGGTA AGTCACCCCA TGTCTGCAGG AGCAGCTGCA      180
GCTAATTATA CCTACTGGGC CTATGTGCCT TTCCCACCCT TAATTCGGGC AGTCACATGG      240
ATGGATAATC CTATTGAAGT ATATGTTAAT AATAGTGCAT GGGTACCTGG CCCCATAGAG      300
GATCGTTGCC CAGCCCAACT CGAG                                          324
```

(2) INFORMATION FOR SEQ ID NO:1411:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 323 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1411:

```
GAATTCGGCC AAAGAGGCCT AGAAGTTGAG TGAAGGAGAA AGAGAGGGAA GTAGAAAAGA      60
GGAGAAAAAT GTTAAGCAAA AAAGGTATTT TCCCTTGGAT ATTAAGTGC ATATCTGAAG      120
AAATGGCATT CCGGACAATT TCGTGTGGG TTGGAGTATT TATTTGTTCT ATCTGTGTGA      180
AAGGATCTTC CCAGCCCCAA GCAAGAGTTT ATTTAACATT TGATGAACTT CGAGAAACCA      240
AGACCTCTGA AACTTCAGC CTTTCCACC ATCCTTTAGA CTACAGGATT TTATTAATGG      300
ATGAAGATCA GGAACAATC GAG                                          323
```

(2) INFORMATION FOR SEQ ID NO:1412:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 149 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1412:

```
GAATTCGGCC AAAGAGGCCT AGTTAGTTGC TCTCCTTTT TCTTTTTTTT GTCGTGCATA      60
TTTTATTCT GTAGTTTCTG GTTAGCTACC CTAAAGTGAT TTA'AAAATT AGAATGCTTT      120
GTGTTTCCTA TTTGGTAATC AACTCGAG                                          149
```

(2) INFORMATION FOR SEQ ID NO:1413:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 308 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

GAATTCGGCC	AAAGAGGCCT	AATAAGAATT	ACTTGTAAC	TAGGGGGCA	TTAGAATTA	60
TATTGTCTT	ATTTGAGATT	TGGATTTAAA	TTTTATTTTA	GAGCATTTT	TAAAAAATAA	120
ATAGAAGTGA	GGCTAATATT	GTTAATTATT	CTCTTTAAAA	AATACAGTAT	TTGCTTTGGG	180
TTAAAATTTT	CTGCCCCAAC	ATCATTATCA	AGAGTCAGCA	TATTACAATG	ATAAATTAG	240
CATTTACTGT	GTGGCAGGCA	TTGTTCTATA	TACTTTATTC	GTAAATTCA	CCAGCGAACA	300
CGCTCGAG						308

(2) INFORMATION FOR SEQ ID NO:1414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

GAATTCGGCC	AAAGAGGCCT	ACTCAGAGCT	GTTACGACTA	GTCAGAGAGA	GCGAGGTGGC	60
TGGTTCATGT	TTGCAGATAG	AGACCTCACT	GTGTGGTGGA	CTTCCCCACT	TCCTGCTGCC	120
TTCATCCTGA	TGGGTGGCTG	CCTTCATCCT	GATGGGTGGC	AGCCTTGCCC	TGCAGTGGGA	180
GACCCAGGTA	ATGTAGTTTT	TTGTTTTGTA	TCCCTGATCT	CTTCTGCAG	TTTTTGCCGG	240
GCAGGTCTCG	AG					252

(2) INFORMATION FOR SEQ ID NO:1415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

GAATTCGGCC	AAAGAGGCCT	AGTGATTGAG	AACCATTGGA	TAATAGCTTG	AAAGCCTAGA	60
TNGACTCTCT	GCATTGCCAC	CCCTCCCTAT	TCTCTTAAGC	CCACTCCATT	CACGCTGTCA	120
TCCACACCAC	TCGGCCACCA	ATTTCACACT	GCCAAATCCA	GTTCCCACTT	CCTCATCGTG	180
TTTATTNGCA	ACATTTGAAA	CAAGTGATCA	ATCCCTTTTC	CATGAAAAAC	CTTCTTTGCA	240
CAGTTTCCAG	AATTCTAAAC	TTTCCTGGTT	TTCTCCTAC	TTCAACTTTC	CAATTACCGT	300
CCCTCATTTT	TACCTCATCA	GCCCAACTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:1416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

```

GAATTCGGGC CAAAGAAGCC TACAANAAAN TATATATATN TGGATCTTCT GAAAAGTTTT    60
TTGAGGTGCA AGTTTTCTCT CTTTTTTTTT TTTTTTTTTT TTCTCATTGA TTAATGGACA    120
TGATGCTGAG ATTCAATCAC TACATGAAAC ACCTGGCTGT GAAAACAAAA CAACCCAGAG    180
GGCTGTGTTT CAAGCAGCGC TGGGGAAGCT ACGTAACAGT CGGATGCCAG TTTTGAAGA    240
TTCACCATGC GTTCTGACCC TCTGTTCGTC TCTTTCCTCT CCTCTTCTT CAAGAAGGAA    300
ATTGATCCTA GTGATTTCAG CCCATGCATT AAACAGGAAA CTCGAG    346

```

(2) INFORMATION FOR SEQ ID NO:1417:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 128 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

```

GAATTCGCCA AAGAGCCTAA GGGCAAGCAG CATTCAATATA TCATATGACT TCTACAATA    60
AAATGAAGCT ATTAGCACTA GTATTTAGTA ATCTAGTAAC TCTCCTTCCA GCCCTCTTCA    120
CCCTCGAG    128

```

(2) INFORMATION FOR SEQ ID NO:1418:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 385 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:

```

GAATTCGGCC AAAGAGCCTA GGGGAAGCGCT CTTCACGGCA CTGGGATCCG CATCTGCCTG    60
GGATCATCAA GCCCTAGAAG CTGGGTTTCT TTAAATTAGG GCTGCCGTTT TCTGTTTCTC    120
CCTGGGCTGC GGAAAGCCAG AAGATTTTAT CTAGCTTATA CAAGGCTGCT GGTGTTCCT    180
CTTTTTTTCC ACGAGGCTGT TTTTGGCTGC AATTGCATGA AATCCCAATG GTGTAGACCA    240
GTGGCGATGG ATCTAGGAGT TTACCAACTG AGACATTTT CAATTTCTTT CTTGTCATCC    300
TTGCTGGGGA CTGAAAACGC TTCTGTGAGA CTTGATAATA GCTCCTCTGG TGCAAGTGTG    360
GTAGCTATTG ACAACATCAC TCGAG    385

```

(2) INFORMATION FOR SEQ ID NO:1419:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 425 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

```

GAATTCGGCC AAAGAGCCCT AGTAGGTTTA TAAACAGAAG TTTAACTTG TAAGCTTAAG    60
CTCCGTTTA TAAACAGAAG TTTAAATTA TAGGTCCTGT TTAACATTCA GCTCTGTTAA    120
CTCACTCATC TTTTGTGTT TTTACACTTT GTCAAGATT CTTTACATAT TCATCAATGT    180

```

CTGAAGAAGT TACTTATGCA GATCTTCAAT TCCAGAACTC CAGTGAGATG GAAAAAATCC	240
CAGAAATTGG CAAATTTGGG GAAAAAGCAC CTCCAGCTCC CTCTCATGTA TGGCGTCCAG	300
CAGCCTTGTT TCTGACTCTT CTGTGCCTTC TGTTGCTCAT TGGATTGGGA GTCTTGCCAA	360
GCATGTTTCA TGTAACCTTT AAGATAGAAA TGAAAAAAT GAACAACTA CAAAACATCC	420
TCGAG	425

(2) INFORMATION FOR SEQ ID NO:1420:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 264 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

GAATTCGGCC AAAGAGGCCT AAGACGCATG CCTGTAATCC CAGCAACTCG GGAAGCTGAG	60
GCGGGAGAAT CGCTGAACC CGGGAGCGGA GGTGCGGTG AGTTGAGATG GCGCCACTGC	120
ACTCCAGCCT TGGCAAAAAG AGCAAACTT CATCTCAAAA AAAAAAAG AATGTGTGGA	180
ATAATGGGGG TTTTTCCTT ACTTTTGTGG CTTATTCTCA CTTACATGGG GATAGCCTTG	240
GTCTTTGACT TGGATAGCCT CGAG	264

(2) INFORMATION FOR SEQ ID NO:1421:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 144 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421:

GAATTCGGCC AAAGAGGCCT AAGTGAATCG ATGTTCTGGC TTGGCTGTCT TTGGTGTGTTT	60
CATTCTTTCA TTTCTTCTC CTGTCTCTCA TCTCTCTCTC CCCGTGCCCT GCTCCCTACA	120
CCTATCCCTC CCCCTACCCT CGAG	144

(2) INFORMATION FOR SEQ ID NO:1422:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

GAATTCGGCC AAAGAGGCCT AGAGAGAATA AAATACATAT AGTTGATTAA AGGAAGGAAG	60
TTTATTACTT AGGGAAAAGG AAGGTAAAAA AAGACCCTAA GCAATAAAGG CAATTCTTTT	120
TTAAGCAGAA TACTTTCATT TTATTTTATT TTTGTTTACC AGTGTTGTGA CGAAACTGC	180
TGCTGGGGCT ACTTCAGCTG AGATGATTG GCTCTTTTTT GTGGCTTTCT TCTGTCTCTG	240
TACATCAGCA CTGTGGTTAT TACACCAGCT ACCAAGTCAT CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:1423:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

```

GCGATTGAAT TCTAGACCTG CCTCGAGACA GAGCAAGATT CCGTTCCCAA GAAAAAAAAA    60
TTGTTCAACA ATAAGGGCAA AGGGAGAGAA TCATAACATC TGATTAAACA GAAAAAGCAA    120
GATTTTAAAA ACTAACTATA TAAGGATGCA TCTCGAG                                157

```

(2) INFORMATION FOR SEQ ID NO:1424:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 408 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:

```

GAATTCGGCC AAAGAGGCCT ACTCAAAGA CAAAAAGAT ACATTAGGCA GTGTTCTGTA    60
AACATGGGAA AATTATTTTA GGTTAAATGG GCTGAGAAGA AATTGCTAA ATTTTGCTTT    120
TGTTACCACG TTTCCTGAAA TGATGATAAT AAATAATATT TAAAAGGGT GAATAGAAGG    180
ATCTTTATTG TAGGTACTGG TGTTAAAATT TAGGTTTCTG AATAATACTG TAAAGCTACT    240
TTCTTTACAC AGATTAAACAC ATTTATCTTC TTGAATTATT TAATAATGAA TGTCAAAAAA    300
TTCGAAATCT CATATAAGAT CTCACCTTGA AACAAAGTAT ATAACTGTT GATTGCACAA    360
TTTGGGTTTT GTGAAGCAGT CAGTTTTGAC TATAAGTGGC AGCTCGAG                                408

```

(2) INFORMATION FOR SEQ ID NO:1425:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:

```

GAATTCGGCC AAAGAGGCCT ATTCTTGCTC CTAAGAATA ACTGTGCTTG AAGAAGAAAA    60
TTCCCAACAT GGACAAACCA CGCAAAGAAA ATGAAGAAGA GCCGCAGAGC GCGCCCAAGA    120
CCGATGAGGA GAGGCCTCCG GTGGAGCACT CTCCCGAAAA GCAGTCCCCC GAGGAGCAGT    180
CTTCGGAGGA GCAGTCCTCG GAGGGAGGAG TTCTTTCCTG AGGAGCTCTT GCCTGAGCTC    240
CTGCCTGAGA TGCTCCTCTC GGAGGAGCGC CCTCCGAGG AGGGTCTTTC CAGGAAGGAC    300
CTGTTTGAGG GGCGCCCTCC CATGGAGCAG CCTCCTTGTC GAGTAGGAAA ACATAAGCTT    360
GAAGAAGGAA GCTTTAAAGA AAGGTTGGCT CGTTCTCGCC CGCAATTTAG AGGGGACATA    420
CATGCAGAA ATTTAAGCAA TGAGGAGATG ATACAGGCAA CTCTCGAG                                468

```

(2) INFORMATION FOR SEQ ID NO:1426:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:

TTTGACCAGA TTATTCTTCT ATGCTTTTTT GCAATAAATC AAATCCCACA TATCTACAAG	60
TGGTATGAAG TCCTGCACCC CCCAGGAGGC CTGTCCAGGC ATGTCTTCAG AGGCAGGGTG	120
GGTTACACTC ATTTACCTCC CCTCTCCCCA CCAAATTATG ACACAAACGA GTATGTTTCC	180
TCTCTAGAAC CCTGTAATGC CTCCTCCCCC ATCCCCAGAG CTCCTTACTG TAGGTCTTAC	240
CCTGGACAAG GATTTTTTCA AGTTGGAGGC ACAGAACATG AGCAATCTGA CATTCCCACA	300
GGCCTCGAG	309

(2) INFORMATION FOR SEQ ID NO:1427:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 501 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

GAATTCGGCC AAAGAGGCCT AAGTGAGGAC AGGGCAAAGA TTTTATAGTC TCCTGTAAAC	60
AGGAAGTGTC CTAGTCTGAC GTAAGTGTGTA CGTTGTACCT GGATGGCCTC TTTCTTGATC	120
TTCACGGGTA CGTGTCTTCC AGCCAGGGTA GGTGTCTTCC GGCCGGCTTT CTTCTGCTT	180
CTGCTATTTT GCTGGCCAC ACTGCTGGCG CAAGGCTTGC GCCTTGGTAC TGGGCCTGAG	240
AAGGGAGGAG TTATTCATCC CCTTAAGCTT TCAGGCCCCA GGGAGAATCT TACACTACTG	300
GGCTGCATTT CCAGACAATT AGGGCATTCT AAGGCACAGG ATGAGGTAGG AGGTCCGCAC	360
AAGATACAGG TCATAAAGAC CTTGCAGATA AAACAGCTTG CAGTAAATAA GCTGGCCCAA	420
ACCCACGAAA ATCAAGATTG TGACCAGAGT GACCTCTGG TCATCCTCAC TGCTACACTG	480
CCACCAGCAT CACGACTCGA G	501

(2) INFORMATION FOR SEQ ID NO:1428:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 135 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

GAATTCGGCC AAAGAGGCCT AGACCTTGTT TAGTGTGTA AAGTTCTTCC AGTCTCGGAA	60
TGGTAAGGAA TTTATGCATG CTTACTCCAT TTTCAATAAG AAGTTTACA AATGCAACTC	120
TATCCATTAC TCGAG	135

(2) INFORMATION FOR SEQ ID NO:1429:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 245 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

```
GAATTCGGCC AAAGAGGCCT AGGGGCAGCG AATGTTTTA GAAGCAGAAA ACTTTCCAAA    60
TTTGGTGAAA GACATAAATT TACAGATTTC AAGAAGCTCC ACAAATTCCA AATATGATAA    120
ATATGAAGAA ACTCATAGCA AGGATGCTAT ACCACACACT TCTGAATAAT CCACAGGTCA    180
AAGAAGTCAG ACTCTCCGGT CTGACATGTA AAGGCCTGG AAGTCGTCAC TCCCATCCTC    240
TCGAG                                         245
```

(2) INFORMATION FOR SEQ ID NO:1430:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

```
GAATTCGGCC ANNAGAGGCC TAAGAACTG GAAGTGCCTT TCATCTCCTC CCCCACCTAA    60
CTCCCCAGAA TTAATCACAA ATACTTTTGT GTGTATATTG TTCTGGAAAT TGTAATGTT    120
TAAACAAATC TACTAAGGTA TACTCTCTG AATTTTCCT TTGAAAATTT AGTTTATAAT    180
TTGGATTTAT TTCTTGATGA GCACATGCTA AACTCATTCC ACCCTTTTTT GATGAAAATT    240
ATTACATGTT TATTAATATA TCACATTCCC TCCCTCCCTG TCCCTTTTTT CCCCATAAA    300
ACACAATACT GTCAACTCGA G                                         321
```

(2) INFORMATION FOR SEQ ID NO:1431:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

```
GAATTCGGCC AAAGAGGCCT AGTGTGAGAC ATTTGTCATT GCTCAGAATT TAAAAATTGC    60
ATTCCAAGCT GTTGGATTG AGTTTAAGTG AGGCCAAACT GGGGCGAGAT CAAACACACC    120
ATCAAAGAAT TACACACATA TCCTGTGGC CACATCGCTT TTGTTGTTG TTCAAGGAT    180
GCTGTGTGTG TTAAGAGGT TAAGACTCTT CTCCTTGGCT GAGGGATCTC CTCTGGAGAT    240
TTTGAAAACA GGAAACAGAT TTCTCTCTCC CTTCTCTGGT AGTCTTCCTA TTCGTGTTAG    300
AAACAATCAA CTCGAG                                         316
```

(2) INFORMATION FOR SEQ ID NO:1432:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

GAATTCGGCC	AAAGAGGCCT	ATAAAAAATGC	AAAAAATCCA	GTCTAAATAT	TGTCTATAGT	60
TTTTTAGGAT	TATAGTGTA	TCTGCTCTTT	TAAGTTATGT	ATCTCTACAG	CCTGCCACCA	120
TATAAGCTTT	TAATTATAAA	ATTATGATGC	TTGACATTGG	GGAGAAAGGA	ACATAAGCAC	180
CCATAATGAG	TCATTTTTGT	TGACTGTATA	AATGAGTCAG	AGTTACATGT	AAGGATGAGA	240
ATATCCTCCT	ACAATTTTGG	TTTTTGATCT	TGATTTTTC	CCATTGACTC	TCTTTTCTCC	300
CCGCCATTCT	CTCTCTTGCA	CGTAGCACAC	TTTGCGCTC	TGTCTGCTAT	TACTGCTATT	360
ATAAACCTTT	TACTGGACTT	CAGTTGTAGT	GACCATTAGG	TCCTAAACAT	AGAACTAAGA	420
GCGTAAGTGG	ACTTTAATAG	AATACTTATT	AATTTTAATA	ACTAGAGTTC	ATAATTAGA	480
ATTAATATAT	GAGAATTTAC	TGTATAATCC	TCGAG			515

(2) INFORMATION FOR SEQ ID NO:1433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433:

GAATTCGGCC	TTCATGGCCT	ACTGCTTTTT	TTTCTCTTTT	TTCTTTTCC	CTTTTGACTT	60
TTGAGGCTCC	TGTTCTTTGG	CAGCACCAGC	TCCTTCTATT	TCTGCAGCCA	AGGCATCAAG	120
ATCAATGTCA	TCCTTGGTGC	TGTCTTCGCT	CTTGTTTTTC	TGTTTCTTCC	CCATTGCTTG	180
TCAATGGCGC	TCGTGGCCCC	AGCCCCTCTA	TTCGGTCTCT	CACAGACCCA	CTGTCTCCCG	240
GCTGACTTTG	GTCTCCGCTC	AGCTCTTTTC	CCCTCGTGCT	GCCGCCGCTC	GCACCCGGCT	300
CGAG						304

(2) INFORMATION FOR SEQ ID NO:1434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434:

GAATTCGGCC	AAAGAGGCCT	AGAATTTATG	TAATCCCAGG	GTGGCTACCT	ATTTCACTAG	60
TATTCCTCTC	GGCTCAGTTT	TAAATTTATT	TTAGAACTTT	GGATTTCTCC	CTAAGAGTTC	120
AAATTTTCCC	AATTATATTT	GGCTTCCAGT	TGACTTTGAT	ACTGGAATTC	TCTGCCAGGA	180
AGGAGTGAGG	CCATCATGTT	TCCAATTATG	CCATCAGTGG	CATCTCTGAT	ATTTTGCCAC	240
GTGTTGCCCC	TGTACAGCCC	TGAGGTGTTG	GGCAGAGGAG	GCCAACCTCA	G	291

(2) INFORMATION FOR SEQ ID NO:1435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435:

```

GAATTCGGCC AAAGAGGCCT AAGACCCCCC TCAGCCTCCC GGAGTGCTGG GATTACAGGT      60
GTGAGCCAAT GCATCCAGCT GACTTTTGGA CTCTATCTTG AGGTAGCTGG GAGCCACTGA      120
CATATGTCAA GCAAGGGATT GACATGATCA GATTATTATG TAGAAAGGCC AGTCGCTCTG      180
TCTACAGTGT GGAGAGTGGA TTGGGAGGCA GAATGACCAG TCTGGAGGCT ATTATAGTAA      240
TCCAGGTTAC AGATGGGGGT AATGAGACCT AGGCAGGTAA TAGCGTGGCT AGAAGGAATG      300
GATAGATTCC AGAGACATTT GGAGGTGAAA TCAGGGGCTG GCGATTTAAC TGGGTATGAA      360
TAAAGAGGTA GAAAGAAGAT TTGAGGATGA TGCTCAGCAT TGAACAAGAG GGTAGACTCG      420
AG

```

(2) INFORMATION FOR SEQ ID NO:1436:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

```

GAATTCGGCC AAAGAGGCCT AAGCTAGTTA TATGTTATTC TGGGAAAAAA TATTATTTGT      60
AGTTATGTCT ATCATGAAAA ATAAAATTTT ATGTGTCCTA AATTTAATTA TATTTTATGA      120
AACATTAACC CTGACACTCG AG

```

(2) INFORMATION FOR SEQ ID NO:1437:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

```

GAATTCGGCC AAAGAGGCCT ACGTACATTT ACTCTTTATA CATGTTTTTT TTGTATGTCA      60
TACCTTTTACA GTCATTATTC TTCTTGATGT TCATATCTCC CCATCTTGG CCAGTTAGAG      120
CATTTCCAAG TGAGCTCCTG TGTCTTTTG ACAAGACCCC AGTAATCGTT CTGCTTTTAG      180
ATAGAATAAG ATGTTTGAGG ATTCTTTTAT ACAACTTTAC CCTAGACCTG AACTCAGACA      240
TCTCTCCAAG GAGCGAACTC GAG

```

(2) INFORMATION FOR SEQ ID NO:1438:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 467 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

```

GAATTCGGCC AAAGAGGCCT AGCAGCCTCT GCCTCCCGGG TTCAAGTGAT TCTCCTGCCG      60

```

CAGCCTCCTG	AGGATCTGGG	ATTACAGAGG	CTATTTGGAA	GCTCCAGACT	GTTTAGAAGA	120
CCTGGACAGC	CAGAAAGTCA	TTAGTCCTAT	CCAAAATGAA	GCAATTTGTG	CAGGAAAAAC	180
AGATATTTTA	TGGAAGAACT	GTGAGTTTCT	GGTAAATCGA	ATGTGCCGTC	TTGAAAGCCT	240
CATGCAGTCC	TTGAAGATGA	ACATCTTTTCG	GCTGCAAACT	GAAAAGGATT	TGAATCCTCA	300
GAAAACAGCT	TTTCTGAAAG	ATCGACTGAA	TGCAATACAG	GAAGAGCATT	CTAAGGACCT	360
GAAGCTGTTG	CATCTCGAAG	TTATGAATTT	CGCCAGCAA	CTGAGAGCTG	TAAAAGAGGA	420
AGAAGACAAG	GCACAAGATG	AGGTGCAAAG	GTTGACTGCC	CCCTCGA		467

(2) INFORMATION FOR SEQ ID NO:1439:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 103 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

GAATTCGGCC	AAAGAGGCCT	AGGCAGATCT	GGCAACTTTC	ATATCTGATA	TTATGTTACT	60
GAAACTAATT	TTAGGTCGCT	TTGCATCTCT	CTGTGCCCTC	GAG		103

(2) INFORMATION FOR SEQ ID NO:1440:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 465 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

GAATTCGGCC	AAAGAGGCCT	ACATNTTTGA	ATCTTAACT	GNNTTTTCT	CTTAGTATTG	60
CTAATGAGTA	AAGAAAAGTC	TCATAAGGTA	GCCAAATCAA	AAAGAATGAA	AGGGAAAGTG	120
AAAAATTAAG	GGGACNAAAG	ATGGGATGTG	AAAAGAAGAA	TTCTAGTTTG	ATGGTGACTC	180
ATATTCACGA	TAGGATACAA	AGTGTGATTT	GTTGGAACA	TGTCCCAAAT	TTCTAAAATT	240
CTGCTTCTCT	GCCAAAAGCA	ATGTCTTTCT	TGGTTGATAT	TTGAGTTTAA	AAAGGGTCAA	300
ATCTTTCTAA	TTTTTTGTAT	CTNNAGAGGG	CAGCACTAGA	AGAAATCAGC	AGGTCTAATC	360
CCACCAGTAA	GAAAAC TACC	ACTTCTTGAT	TTTACAGAT	TTAAAAAAAT	CTTTTCAGTG	420
ACCTTTCTTT	TTAATGTAAA	TACAAATTTA	AACCTTAGGC	TCGAG		465

(2) INFORMATION FOR SEQ ID NO:1441:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 336 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

GAATTCGGCC	AANGAGGCCT	AGAATTATAC	AGGTAGAGAT	GTATGCAGAT	GTGTCCATAT	60
ATGTCCATAT	TTACATTTTG	ATAGCCATTG	ATGTATGCAT	CTCTTGGCTG	TACTATAAGA	120
ACACATTAAT	TCAATGGAAA	TACACTTTGC	TAATATTTTA	ATGGTATAGA	TCTGCTAATG	180

AATTCTCTTA AAAACATACT GTATTCTGTT GCTGTGTGTT TCATTTTAAA TTGAGCATT	240
AGGGAATGCA GCATTTAAAT CAGAACTCTG CCAATGCTTT TATCTAGAGG CGTGTGCCA	300
TTTTGTCTT ATATGAAAT TCTAATCCCT CTCGAG	336

(2) INFORMATION FOR SEQ ID NO:1442:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 119 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

GAATTCGGCC AAAGAGGCCT ATGATTTTTA GACATCCAGA AAGCAAACCT TAACTGTCTG	60
TGAGGTACAG AGACTGGATG ATGTTAAAGA AAACCATAGT TGGACACAAG ATACTCGAG	119

(2) INFORMATION FOR SEQ ID NO:1443:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 214 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

GAATTCGGCC AAAGAGGCCT AGAGAAATTT TAAAAAGCAT AGTTGAGGCA TATTTTTC	60
TAATTATATA CTTATCTGTT TATTGCCCAT GGAAAATATA TGTGTAGAAG TATTTCTTCT	120
GTTATTTGTT ACTATCTTCT TAATTTGTTC CAAAGAAAAT GCTGCCATAC TGCATTCCT	180
CTGGAAGGAA ACAAACAAC ACAAACCTCT CGAG	214

(2) INFORMATION FOR SEQ ID NO:1444:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 499 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

GAATTCGGCC AAAGAGGCCT AGGAAAGGAA AAATTAATAA CCCTAGATCT CTGGTACACA	60
TAAGTCTGGG TTTGCGATTG CTATTTGTGC TGGGGCAGTG TGATTGAGAC TGACATTGAG	120
GAAAGAAGCA GCTATGAAGA CCAGGGGGTT CAGCTTTCCA AGACAAAGGC AAGTCCTGTT	180
TCTTTTCTT TTCTGGGGAG TGTCTTGGC AGGTTCTGGG TTTGGACGTT ATTCTGGTAC	240
TGAGGAAACA GAGAAAGGAT CCTTTGTGGT CAATCTGGCA AAGGATCTGG GACTAGCAGA	300
GGGGGAGCTG GCTGCAAGGG GAACCAGGGT GGTTCCGAT GATAACAAAC AATACCTGCT	360
CCTGGATTCA CATACCGGGA ATTTGCTCAC AAATGAGAAA CTGGACCGAG AGAAGCTGTG	420
TGGCCCTAAA GAGCCCTGTA TGCTGTATTT CCAAATTTTA ATGGATGATC CTTTCAGAT	480
TTACAGGGCC GAGCTCGAG	499

(2) INFORMATION FOR SEQ ID NO:1445:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 329 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

```
GAATTCGGCC AAAGAGGCCT AAAATTTGAT TAGAAATGCA AGACTGGATG CCAAGATTGA      60
TTCTAAATTA GGTCAATGTG TTATGGGTAA CAATGCAGTC TCACCCTATC AGCAAGTGAT      120
TGAAAAGACC AAAAGCCTTT CCTTTAGAAC CCAGATGTTG GCCATGAATA TTGAGAAGAA      180
ACTTAATCAG AATAGCAGGT CAGAGGCTCC TAACTGGGCA ACTCAAGATT CTGGCTTCTA      240
CTGAAGAACC ATAAAGAAAA GATGAAAAAA AAAACTATCA AAGAAAGATG AAATAATAAA      300
ACTATTATAT AAAGGTGAC TTACTCGAG                                     329
```

(2) INFORMATION FOR SEQ ID NO:1446:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 607 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

```
GAATTCGGCC AAAGAGGCCT AACAGAGGAA ACCACCCTTC AACTGGAACA TATCATTAAG      60
CAGAGGATAA GAGATCAGGC TTGGGATGAT GTAGTACGTA AAGAAAAACC TAAAGAGGAT      120
GCATATGAAT ATAAAAAGCG TTTAACCTTA GACCATGAGA AGAGTAAATT GAGCCTTGCT      180
GAAATTTATG AACAGGAGTA CATCAAACTC AACCAGCAAA AAACAGCAGA AGAAGAAAAT      240
CCAGAACATG TAGAAATTCA GAAGATGATG GATTCCCTCT TCTTAAATTT GGATGCCNTC      300
TCAAACTTCC ACTTTATCCC TAAACCGCCT GTACCAGAGA TTAAAGTTGT GTCAAATCTG      360
CCAGCCATAA CCATGGAGGA AGTAGCCCCA GTGAGTGTTA GTGATGCAGC TCTCCTGGCC      420
CCAGAGGAGA TCAAGGAGAA AAATAAAGCT GGACATATAA AAACAGCTGC TGAAAAAACA      480
GCTACAGAAC AACTCGAGGT GTGGGGAAAA GAAAGAGAGA TCAGATTGTT ACTGTGCTCTG      540
TATAGAAAGA AGTAGACATA GGAGACTCCA TTTTGTCTCT TACTAAGAAA AATTCTTCTG      600
CCTCGAG                                     607
```

(2) INFORMATION FOR SEQ ID NO:1447:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 467 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

```
CTGCTGCAGC AATATTCAGA TTGAAAAAAA TAGGTTTGGG TTCACTGAGT TTAAAGGGAT      60
GATGATAAAA AGGAGGTTCT TCTTCCTCTT CATCCGAAAC ATGAGGTTTA TTCACTATTA      120
CATCATCATC TTCTTTACTC TGTGCGATCT GTTTACATTT CTCAGTTAGT TCTTCTATAG      180
TAGCTCCTCC TGACTTTTTA GCAACTTTCT CTCTATAGT AGGTGGAGGT GCAGGCTTTA      240
GGTTTGGTGG TAAAGGGACA CCAGCCTTAG CACACATGGC AGCTGCATTA GCTTTGGCTA      300
TTTCAAGTAA TTAGACCTTA TCCAATCTG TCAGACGTTT GGGTGATCTG CCTCGTTTCTG      360
```

AAGACCTGGA TCTTTTACGA CGGATGGGAG ATCTGCTAAA CCTTCTTCTT AAGGGTGTTC 420
 TTGATCGCCT TAATCTGACT GGTGAGTAGG CCTCTTTAGC CGAATTC 467

(2) INFORMATION FOR SEQ ID NO:1448:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 128 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:

GAATTCGGCC AAAGAGGCCT AGACACTTAT AGGCTTTTTA AGAAGCATTG ATCAATTGTC 60
 AAACCTAGTG CTACATCAGA CTGTGGAGCG TATTCATGTG GGCAAAAAAT ACGGTGATAT 120
 TCCTCGAG 128

(2) INFORMATION FOR SEQ ID NO:1449:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 314 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:

GAATTCGGCC ACNGAGGCCT ATTTAAATGA AAATNATTG AATGTTTAAT ACTCTTCCCT 60
 TCTTCAATTG TAGAAACATT ACCCTTTTGC ACTATCTCAT CACTATTGTG GAAAATAAGT 120
 ACCCCAGTGT TCTCAATCTA AATGAAGAAT TGCAGATAT TCCTCAAGCT GCGAAAAGTAA 180
 ACATGACTGA GCTGGACAAA GAAATAAGTA CCTTGAGAAG TGGCTTGAAA GCAGTAGAGA 240
 CAGAGCTGGA ATATCAGAAG TCTCAGCCCC CACAGCCCCG AGATAAGTTT GTGTCTGTTG 300
 TCAGCCATCT CGAG 314

(2) INFORMATION FOR SEQ ID NO:1450:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 432 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:

GGAATTCGGC CAAAGAGGCC TAGTGGTTTT CCCAGGAGGA AAGAGAGCTG CAGGGATACA 60
 GATGCCTTCC TGAGCAGAGA AAATAGAATA CTTGAGCCAA TTTTCATGTA AAATGGATTA 120
 TTTTCTGGC GTTTCCTGTC CTTCAAGTAA AAGGTTCTGG AATGAGTACT TCACTGCTGT 180
 AATGGAGACA CTAATATTTT ATGAATGCAG TTTTACAGTT TGCAGTAATG CCAGGCCTTT 240
 GGCTGTTTT CATTAGATGG TGCACTTGGC TGGAAGCATA TACTCTTGTA GCTTTGATT 300
 TAAATTTAAC TTTCAAGTTG AAAGAGCAGT GACTCATCCA AAGGACAGGT GATATTTATT 360
 TATTTTTTCT TGAAAATGCA GCACGGGTAT GTTGTTATCA CACGTTTAGG GGAATTGCCA 420
 CACTTCCTCG AG 432

(2) INFORMATION FOR SEQ ID NO:1451:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 463 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:

```

GAATTCGGCC AAAGAGGCCT AGGATTGAAC GCTTTCACCC TGTGCCCCGC GCCTGGCGTA      60
ACGCGTGGCC CCAGACCACA CGCTGTAACC CGGGGTGAGA GGGAGTGAGG TGGGACTTCG      120
TACCGGACCC GGAGCGCCGG CCTCGCCCGC GCGGGCAGCG TTCACTGTGG GGAGTGCTCA      180
CTCAGCCTAG GCGCGCCCGG GAGGACTGCC GGGAGGAGGG AGTCGCGCCTT GAATTGAGGC      240
CTCAGCCTTG AATAGGGTAG GGAGGCAAGC CTAGCCGAGA GTTTAGCACT AGCAAAAGCC      300
TGGAGGCACC AGGGTCTGCC CTAAGAACTG CAGCGCCTCT GCTCTGGCTG GGATTTAACG      360
CATTACGTCT CTGCTGTTTA TAGGTGTTGT GTTTGGTCTT ACGACTTCGT ATTCTATAGT      420
TTTATTTTAT TCCTGTTTTC TGAATTTTCC CACTTTGCTC GAG                          463

```

(2) INFORMATION FOR SEQ ID NO:1452:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 407 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:

```

GAATTCGGCC AAAGAGGCCT AATGCAAGTC TGGACCGTTT AAAAGCTGGT AATTAAACAC      60
TTTATTCCAT ATCAGAATAA AAGTCAACTA GTTGAATATT TCTAGGTGAG ATGTGGTACT      120
ACTTTTTTTT TNGCTGTTAT TTTATGTCG TATCTAAAAT ATCTTACTGC ACTCTTTTTT      180
CAGGTTGCAG CAGATCCTTG AGTTTTGAAC CTGACGGGCA AATCAGAGCT TCTTCCTCAT      240
GGCAGTCGGT CAATGAGAGT GGAGACCAAG TTCACTGGTC TCCTGGCCAA GCCCGACTTC      300
AGGACCAAGG CCCATCATGG GCTTCGGGCG ACAGTAGCAA CAACCACAAA CCACGAGAGT      360
GGCTGGAGAT CGATTTGGGG GAGAAAAAGA AAATAACAGG ACTCGAG                          407

```

(2) INFORMATION FOR SEQ ID NO:1453:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 368 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:

```

GAATTCGGCC AAAGAGGCCT ACGGCCAAAG AGGCCTATAG GCCTCTTTGG CCGGAAATCA      60
TGGTGTATA GATCAAAAGA TAAAAGTTTC ACAGAAGAGG TGGGATTTGA ACTAAGCTGT      120
TCATGCTCAG TAAGATTAGA GGAGGTGAAG CAAATGGGGG AATGTGTGCC AGAAGAGGAC      180
AGGTGCAAAG ATAAGCACTG GTGCTTGATC TTGACTGAAT TTTCAACCAA ACCAGCTGAC      240
TCTCAGGATA GTTGAAGGTC ACTTTCTGCT GTTTAAAGAA AGATTCTAAA GTTACTTAAG      300
AAATATTTGG CAAAAGACTC AAAAGGAAGG ATTCCAATTA CAATATAAAT AAAGTAAGAA      360

```

ACCTCGAG

368

(2) INFORMATION FOR SEQ ID NO:1454:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 618 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

```

GAATTCGGCC TTCATGGCCT ACCGTGCTCT ATGCTGATCC TTTTCTCGT GAGAAAACGC      60
TGGCCTGTTA TTATTAGCTA AGGTCACACC CGCTGGGCAG CTCCTGGGAT TTTTGGATTC      120
CTCCCCACTC CAGAGGGAAG GCTATTTCTA GTGGCTTCTT TTCTTTGAGT CCTCCCTTCT      180
GTCTGTCTCT CTCCTGTTCC TCCTCTTTAC CAGTAGGGCT TCCTCAATGC TGACAGCCCT      240
GTGAAAAAAG GGGAGACATG CCGAGCTCCG GCAGGAAACT GCTGGCCCAG GACCTGGCTT      300
CTGGGGCACA AAGGAGAATT TCTGTGTTTG GAAAAGTACA GACTGAGCAG GTGACCCCCG      360
CACAGCCCTT TGGGGGAAAC ACTTGTGCCC TTTGAGTCTG ACTGATATAA ACACAGACTC      420
TCTTGACTGT CCCATAAAGG CCAAGCCAG ACAACCTCAG AAAGGGACTT GCAAATGTG      480
AGTGAGGCAT ATCAGCTGGT GCTTCTTTT CTCTGTGGG TGCCATTTAT GAATCTCTTG      540
GTTTCTCTCT GTCTCTGTCC CTCCACTTTT CTCTCCTTGT CTGGTGTGTG CATTCCCTCT      600
GACGCGCTGG CTCTCGAG                                     618

```

(2) INFORMATION FOR SEQ ID NO:1455:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

```

GAATTCGGCC TTCATGGCCT AGCCTTTTGT AAATCAGGA AAGACAAAGG TTCAATTACA      60
CCACTTTTGT CAATAAGCAA ACCAGGTATT TTTTCTTCTT CCTGTGTCTT GGATATGGCA      120
ATAAATTTT TAAATTGCTG TGAGAACCCA TATATGAAAA GAGAGGAGTT GAATTGTGTG      180
TGCCTTTTAT GTCTTGAGAT TTATATGTGG AAAAGACGAC ATCTACTTCA AACTGTATTT      240
TTTTCGTTTT TTTTCTTTT TGGGGAAGGG GGGAGAACGG GGTCTTGCTC TGTCGCCCAG      300
GCTGAACTCG AG                                     312

```

(2) INFORMATION FOR SEQ ID NO:1456:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

```

GAATTCGCCT TCATGGCCTA GCTTAATCTT ACAGTCATTT AAAATAATTT CAGAAATGTT      60
CCTTTCATAC CATTGTCTCC ACCCCCAAAC CAGCTTACTA AAAATGGCTT AGGATTTGTT      120

```

```

TTCAGTCCTT CCTCTTCCTC TCCCCTGCTC CCAGACAAGG GTGTGTACTC AATACTGTAT      180
TCAGAAGTTA CTTGGGTAG TTCTTTTTTT CCGATCTTTC AGTGTGATTA TTTTATTCAT      240
TTGAAATACA ATTGGATTCA TTCGTTTCCG TATGCTTTCA GTTTTAGCTT TTTTCCACTA      300
TCTTTGTTGA TATAATTGCA TTTTGTGATA GGGGGATATT AATATACTTC ACAAAGTCAG      360
AATAACATAA GGGTTTACTC AGATGTAACC TGTATCTTA GCCCGTGATC TCGAG          415

```

(2) INFORMATION FOR SEQ ID NO:1457:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:

```

GAATTCGGCC TTCATGGCCT ACATTTTCTT ATTGATATAA AAATTGTTAG AGAAATATAC      60
AGTTGTATAT TCCCCCCTT TATACAGAAA TTTTACAATA ATTTTCAGATT TTTCTGAGTT      120
TTTTTCAGATT TTTGATTCTA TAATATGAGA TTATTCTTTC TTCCTCTTAT TTTTTTAGGT      180
TATTIATTTT TTCTTTTCTT TTTAATTGTC TCATACAGGT TTAATCTCGA G          231

```

(2) INFORMATION FOR SEQ ID NO:1458:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:

```

GAATTCGTGT CATATTTTAA AATGTTCTCT TTTTCAACA TTCAGCAAAA TATTATGTGC      60
TAGGAACCTCT CCCAGACGCT TGTTAACATC TATGAATACA ACAAAGATTC TGCCCTCCTG      120
GGCCTCTTTT CTGATGGGGA AGCAAAAATC TCGAG          155

```

(2) INFORMATION FOR SEQ ID NO:1459:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:

```

GAATTCGGCC TTCATGGCCT AGGTGACTAA GTACAAAAAA ATAGTTTCTT CATTTGATTC      60
AAAATAGTGA GTAGGTTCCT TGGATAATAC ACAGTGGTAG TTGACATATT TTCTCAAAAC      120
ACAACCAGAA AACCCACTTC CGGTATTTGT AAATCACCTT TCAAGGGAAA AAGTGAACAC      180
GTATTCCTTG TATTTCTAGT TTGATTACCA AACCTGATGT TACAAAGAAA CCTCCGTTCT      240
GTAGACAGAA TTTCTTTTAT TTTTCTTCTT TTAATCCTCA CAATCACTTT CCCAGTGCCA      300
CCACCGCTCG AG          312

```

(2) INFORMATION FOR SEQ ID NO:1460:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 459 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:

```
GAATTCGGCC TTCATGGCCT AGTCTCCCTC GGCCTGTGCC GCCGCCGACG CCGCTTGTGG      60
GCCCCGACTCC GCTCTGTCTG CTTCGCCACC TTCTCCCCGA GCACTGCCCG GCCGGCCGCC      120
ATGGCTAACG TGGCTGACAC GAAGCTGTAC GACATCCTGG CGTCCCGCCC GCGGCCAGCG      180
AGAACGAGCT GAAGAAGGCA TACAGAAAGT TAGCCAAGGA ATATCATCCT GATAAGAATC      240
CAAATGCAGG AGACAAATT AAAGAAATAA GTTTTGCATA TGAAGTACTA TCAATCCTG      300
AGAAGCGTGA GTTATATGAC AGATACGGAG AGCAAGGTCT TCGGGAAGGC AGCGGCGGAG      360
GTGGTGGCAT GGATGATATT TTCTCTACA TTTTGGTGG GGGATTGTTC GGCTTCATGG      420
GCAATCAGAG TAGAAGTCGA AATGGCAGAA GAACTCGAG                                459
```

(2) INFORMATION FOR SEQ ID NO:1461:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 511 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461:

```
GAATTCGGCC TTCATGGCCT ACGAGATCAA GGACAAGAGG CAGCTTATAG ACAACCGCAA      60
GCTCATTGAG ACGCAAATGG AACGGTTCAA AGTTGTGGAA CGAGAGACCA AAACCAAAGC      120
TTACAGCAAA GAGGGCCTGG GCCTGGCCCA GAAGGTAGAT CCTGCCCGAGA AGGAGAAGGA      180
AGAGGTTGGC CAGTGGCTCA CGAATACCAT CGACACGCTC AACATGCAGG TGGACCAATT      240
TGAGAGTGAA GTGGAGTCAC TGTCAGTGCA GACACGCAAG AAGAAGGGCG ACAAGGATAA      300
GCAGGACCGG ATTGAGGGCT TGAAGCGGCA CATCGAGAAG CACCGCTACC ACGTGCGCAT      360
GCTAGAGACC ATCCTGCGCA TGCTGGACAA TGACTCCATC CTCGTTGACG CCATCCGCAA      420
GATCAAGGAC GACGTTGAGT ACTATGTTGA CTCATCCCAG GACCCCGACT TCGAGGAGAA      480
CGAGTTTCTC TACGATGACC TGGACCTCGA G                                511
```

(2) INFORMATION FOR SEQ ID NO:1462:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 130 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462:

```
GAATTCGGCC AAAGAGGCCT ATTTGTTTTG TGGTTTTTAA ATTTTCTT CGCATAAAGG      60
GTAACATCTT GCAACTTGAT TCTTCACTT CATGATATGC CTTAGATTTC TTTCTTCC      120
AATACTCGAG                                130
```

(2) INFORMATION FOR SEQ ID NO:1463:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:

```

GAATTCGGCC AAAGAGGCCT ACTTGTNAAG TGCTTTTGAA TTAATAAAAT ATTAGCATAA    60
TTGTGTNTAG TCAGTTGAAC CCACTGTTAC CATTGTTCTT ATCCCATGGG AAGCAGTTGG    120
TTACACGATT CTTATTTTAT AAGAAACAGC TGAGAGGCAC TATGGATTAG TCTTCTGAAG    180
TGAAGGAAAT ATAGATGTCT CCTAAGTGAT AGTTAACCCA TTTTITTTTT TTTTAGGCAT    240
AGAAGCCAGT TCAGGGTCCA TAATATTAG TGACCAACAT TTTAAAGTAT AGCAGCAACC    300
TGGTTCTTAA ACACAAAGTA AGTTGCCCAT TAACAAATGG CTTTATCTT TAGCATGAAA    360
ACTTTCACA CGTCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1464:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:

```

GAATTCGGCC AAAGAGGCCT ANAANAACCT TTTTCTGGG AGCAAGGTAG TTATTTCAAA    60
GCACAGAAAA AGGCGGCGGG GGGCACAGAG AAGCACAGAG AAGCGGGGGC AGTGCACAG    120
GTAAACATT CATCTTGGCT TTTCTTTTAA AAAGATAAAC TTTGTCCAC GTAAAGAGGA    180
ANACTGCATA GATATTCATT GAGATTATCT GATTGTGTCAC TGTTGCCAAA GAAAAACAA    240
AGGTAATAA CACGAGTTTC NNCATTGAGA AGAAAGTATT TCAGGTAAAA ATTAATATT    300
AAGCACTTT TCTCAGCAGA AGAAATGCC AAATTCTTAA GGACAGTACT CGAG          354

```

(2) INFORMATION FOR SEQ ID NO:1465:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:

```

GAATTCGGCC AAAGAGGCCT AACTGCTCC AGCTCTGACT CCCTCATCCC TTGCCTGGAC    60
CATGGTAATT GACCCTAGCT GGTCTCCTTT TCTCCTCTCA TCAGTCTCC ACATTGCTGC    120
TGTTTTCATC TTTGTGACAT ACAAATGTGT TGCTTTCCCG TCTAAACCC TGCTTGTCCT    180
TCCCATTTT GACTGCCTGC CCCAGCACG CACACACACA AACTCGAG          229

```

(2) INFORMATION FOR SEQ ID NO:1466:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

```
GAATTCGGCC AAAGAGGCCT ATTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTAATTTAT    60
AAGGAATAGA AATTTATTGG CTCACAGTTC TGGGGGCTGG GAAGTCCCAG AGTAAGGTGC    120
CAGCGTCTGG TGCAATCCTT CTTGTTGTGT CACTGTGGAA GGTGGAAGGG CAAGAGAGGG    180
CCAAGCTCAT CTTATTATAC CAGCACCCAT TCCAACATCA TCCTCGAAGG ATCCCAATTT    240
TGAAAGAAAA AGCATGTGAG ACACAGAACA GCGGAGAGAG TGAGGGCCCG GCATGCCCCC    300
AAGTCCCCAC CACCGCACCT GCTCGAG                                     327
```

(2) INFORMATION FOR SEQ ID NO:1467:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 403 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

```
GAATTCGGCC TTCATGGCCT AGAGAGAGAG AGAGAAAAGG AGGGGGTGGT GGAGAAGCGG    60
GAGCGAAGGA AAGGAGGCAA AAGGCAAAGT GAAGGAAAGC TGGATAGCTC GGCCTCTCCA    120
AACTGATTGA TTAGTCATGA TCCCGCAGT TTTAACAGGG ACTCATTCAA TTGGGAAGGT    180
GGAGCGCTGG GGAGCAGATT AGCATACGCT TGTTTACTCA TCTTCTGAGG GATTTTTTCC    240
CCCTCTTTCC TTTCAATTTG AGAAGAAGGA GGGAGGGGAG GGGGGACTTG GGGGGGAGA    300
AGGGGGCTGT GGCTTGTGTT ATAAAGGACG CAAAAAATAA ATAAATTAGA GCATCTTTTG    360
GGGGGAGGGA ATTCAGCGGA TCAGTCTTAA GATGGAGCTC GAG                                     403
```

(2) INFORMATION FOR SEQ ID NO:1468:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 329 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

```
GAATTCGGCC TTCATGGCCT ACACGAGGTC AGACGTCACA CATTGTTTTT TGGCTTGTTC    60
TTTTGAAGTT TTTACGACTT GTCATGAGTC TCGGCCTGGC TTCTGTTTTT CACTGTCCGG    120
AAGAGTGTGG TCCTTCTGCA TTTGACCTTC CTTACCCCTC ATCCAGTCTC CCCAGTGTGG    180
CCGGTCTCAT TTCGTGTCGT CAGCTGGGTC AGCTGGCTCG GTGTGGAGTT TGGATTTTCC    240
GTGATCCATC CCATGCTTTT TTTTCTTTTC TTTCTTTTTT CCTTTTCTTT TCTTTTCTTT    300
TTTTTTCAGT TTTCTCCCA ACTCTCGAG                                     329
```

(2) INFORMATION FOR SEQ ID NO:1469:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 352 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

```
GAATTCGGCC TTCATGGCCT ACAGGAAAAAT TCTTCTGGCG TATTTCATTG TGATGTTTAT    60
AGTATATGCC TTTGAAGTGG CATCTTGTAT CACAGCAGCA ACACAACGAG ACTTTATGCT    120
AGAGAGGTAC CAAAACAACA GCCCTCCAAA CGATGATGAC CAGTGGAAAA ACAATGGAGT    180
CACCAAAACC TGGGACAGGC TCATGCTCCA GGACAATTGC TGTGGCGTAA ATGGTCCATC    240
AGACTGGCAA AAATACACAT CTGCCTTCCG GACTGAGAAT AATGATGCTG ACTATCCCTG    300
GCCTCGTCAA TGCTGTGTTA TGAACAATCT TAAAGAATCT CTCACCCTCG AG          352
```

(2) INFORMATION FOR SEQ ID NO:1470:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 609 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

```
GAATTCGGCC TTCATGGCCT AGAGCCGTCC TATCAGATTA TCTTAACAAG AAAACCAACT    60
GGAAAAAATA ATGAAATTCC TTATCTTCGC ATTTTTCGGT GGTGTTCAAC TTTTATCCCT    120
GTGCTCTGGG AAAGCTATAT GCAAGATGG CATCTCTAAG AGGACTTTTG AAGAAATAAA    180
AGAAGAAATA GCCAGCTGTG GAGATGTTGC TAAAGCAATC ATCAACCTAG CTGTTTATGG    240
TAAAGCCCG AACAGATCCT ATGAGCGATT GGCACCTCTG GTTGATACTG TTGGACCCAG    300
ACTGAGTGGC TCCAAGAACT AGAAAAAGCC ATCCAATTA TGTACCAAAA CCTGCAGCAA    360
GATGGGCTGG AGAAAGTTCA CCTGGAGCCA GTGAGAATAC CCCACTGGGA GAGGGGAGAA    420
GAATCAGCTG TGATGCTGGA GCCAAGAATT CATAAGATAG CCATCTGGG TCTTGGCAGC    480
AGCATTGGGA CTCCTCCAGA AGGCATTACA GCAGAAGTTC TGGTGGTGAC CTCTTTCGAT    540
GAACCTGCAG GAAGGGCCTC AGAAGCAAGA GGAAGATTG TTGTTTATAA CCAACCTTAC    600
AACCTCGAG                                609
```

(2) INFORMATION FOR SEQ ID NO:1471:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

```
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TCGAGCCTGG GCAATAGAAT    60
GAGGCTCCAT CTCATAATAA TAATAAGCAG CAGCGGCAGC TCTGGTAGAT TTTTGTGTGT    120
GCTTGTCTCT ATGAAGACTT AAGCCTGCTC TTTCAATTTG AAACCTAGGC ACTTGGACTA    180
ACTTAAAAGA TCATGTAAAA AATTTAATTT TTGTTTGGTA TAGATTTAAT TGTGGTTTTT    240
TTTTTCTCTT TTAGATATAA TTGATCCTGT TGCTTTAGAA ATTCCATTAT CCAAAAACCT    300
TCTGGCACAG ATTAGTGCTC TTGCTCTTCA GCTGGATTCA GAAGATCTTC ATAATTATTC    360
AGGAAGCCAA CTATTTGAAA TGCACGAGAA AACCTCGAG                                399
```

(2) INFORMATION FOR SEQ ID NO:1472:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

```

GAATTCGGCC TTCATGGCCT ACAGGTTTTA AACTGGTTTT TTGCATACTG CTATATAATT      60
CTCTGTCTCT CTCTGTTTAT CTCTCCCTC CCTCCCTCC CTTTCTTCTC CATCTCCATT      120
CTTTTGAATT TCCTCATCCC TCCATCTCAA TCCCGTATCT ACGCACCCCC CCCCCAGGC      180
AAAGCACTGC TCTGAGTATC ACATCACACA AAAGGAACAA AAGCGAAACA CACAAACCAG      240
CCTCAACTTA CACTTGGTTA CTCAAAGAA CAAGAGTCAA TGGTACTTGT CCTAGCGTTT      300
CTCGAG                                         306

```

(2) INFORMATION FOR SEQ ID NO:1473:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

```

GAATTCGGCC TCATGGCCTA CAACTCCGCA GCAAACAACT CCGCAAACGG AAAAGAACG      60
ACATGATGCA ATCTTCAGGA AAGTAAGAGG CATACTAAAT AAGCTTACTC CTGAAAAGTT      120
TGACAAGCTA TGCCTTGAGC TCCTCAATGT GGGTGTAGAG TCTAAACTCA TCCTTAAAGG      180
GGTCATACTG CTGATTGTGG ACAAAGCCCT AGAAGAGCCA AAGTATAGCT CACTGTATGC      240
TCAGCTATGT CTGCGATTGG CAGAAGATGC ACCAACTTT GATGGCCAG CAGCAGAGGG      300
TCAACCAGGA CAGAAGCAAA GCACCACATT CAGACGCCTC CTAATTTCCA AATTACAAGA      360
TGAATTTGAA AACCGAACGC TCGAG                                         385

```

(2) INFORMATION FOR SEQ ID NO:1474:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

```

GAATTCGGCC TTCATGGCCT AGATCCCCTT ATTTTGCCAA AAAGTGTGAT CAATTCATT      60
GGATAACTTT TATGTTTTAG GAACGTGGCC TCTCTTTTAA TTAGTGAGAA CTTACAAAAT      120
GGTTCAGAAA GTTTATATTT TTAAAGCTTT CATTGATTGA TATATTGAAC ATCTAAGGCT      180
TAATATCTT TCCACTGGGA CAAAAACAGA ATTCTTAAAA ATGAGGAGGA GGGCCAGTG      240
TGGTGGCTTA CACCTGGAAT TCCAGTGCTT TGGGAGTCCA AGGTAGGAGA ACTGCTTGAG      300
GCCAGGGGTT TGAGACCAGC CTGGGCAACA CAGCAAGACA ACTCTACAAA AAATTAAAAA      360
AACATCCAG GGCCGAGCAT AGTGGTTCAC ACCTGTAATC CCAGCACTTT AGGAGGCCAA      420
GCCTCGAG                                         428

```

(2) INFORMATION FOR SEQ ID NO:1475:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

```

GAATTCGGCC TTCATGGCCT ACTGGGATGT ATATGAGAGA CAGTGCTTTC AATTAAATCC      60
TTGGGTATAT TTTTATTAAT TTCCTCCAGA TTTTCTTTT AAGGCCTTTT CTAAGTTATA      120
CTGCATATCA AACTTCCCTG TTATTGAAGG ATATAAGGTA GAAGGTAAAA GCCATTTTCC      180
TATAAGTAAC TTGGGCATTT GCAAAGATTT TTCTCAAGTG CAGTTGTAAC TATACTAAAA      240
TATACTAATA TTGTGTTATG ATATACCTTG CTTTTTTTCT TTTATTTTTT CTTTGTAGAG      300
AGAGTTTTGC TCTTGTTCCT CAGGCTGAAG CGCTCGAG                                338

```

(2) INFORMATION FOR SEQ ID NO:1476:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

```

GAATTCGGCC TTCATGGCCT ACAAAGAGCT AGAAGCCATT GAAAGTCGGC TAGAAAAGAC      60
AGAATTCACCT CTAAAAGAGG ATTAACTAA ACTGAAAACA TTAAGTGTGA TGTTGTAGA      120
TGAACGGAAA ACAATGAGTG AAAAATTAAA GAAACTGAA GATAAATTAC AAGCTGCTTC      180
TTCTCAGCTT CAAGTGGAGC AAAATAAAGT AACACAGTT ACTGAGAAGT TAATTGAGGA      240
AACTAAAAGG GCGCTCAAGT CAAAACCGA TGTAAGAA AAGATGTACA GCGTAACCAA      300
GGAGAGAGAT GATTAAAAA ACAAATTGAA AGCGGCAGAA CTCGAG                                346

```

(2) INFORMATION FOR SEQ ID NO:1477:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

```

GAATTCGGCC TTCATGGCCT ACAGGTTTTT ATTTTATATT ATTTTCCTTT AGCCTGAAAA      60
ATTTATTAT TTTTCTCTT AGTACAAGTC TGCTGGTGGT AAATTCTCTT AGTTTGTGT      120
TATTGAAAGA TATTTTATT TTGCCTTCAT TCCAGAAGGT TGCTTTTGCT GGATATAGGA      180
TTCTACAACT TTTGCCTTTA ACATGTTATG GATGCCATTC CTCTGTCTTT TAGCTTCCAT      240
TGTTTCTGAT GCTAAATCTT CAGTCATTTT ATCATTGATC CTCTGTAATG TACTCGAG      298

```

(2) INFORMATION FOR SEQ ID NO:1478:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

```
GCGAACTAGC CCAAATGCAC CTAGGAACAT TGTTGCTTCA GGACCAGTTA TTTCTGACCT    60
TCCAGTTGTT CCTGACTGTG AAGGGTGACC GCTTCCCGGG ACTCGAG                      107
```

(2) INFORMATION FOR SEQ ID NO:1479:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 340 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

```
GAATTCGGCC TTCATGGCCT ACTTATATTC TTTATTATTA TTTAGTACAA AAATAGATTC    60
CCAGTAGATA TCCACAAGCA ATATTAGCAG GGCTTCTGTT TCTAAGTGAC CACAGACTAA    120
CCCTTTCTAG GCTTTAACAT TGTAAATAAT CCTATAAACA GTTTGATTTT TTAAGATGAT    180
TTTTGATTG AAGAGACAGG CTTTACATAA GCCTTCATTC CTTCAAAGG TCCTGACAAA    240
ATACTGGGT TTTTCTCT TTTTTCATT CTGGTATGCT TTGCAGCATT TCAGCTGCTT    300
TGGTGGGGAC ACAGATAACC CCTTCGCTC CAGACTCGAG                      340
```

(2) INFORMATION FOR SEQ ID NO:1480:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 233 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

```
GCGATTATTG TAAGTTGACA ATTTATAATT GTATAAAAGT ATGAGGTACA AAGTGATGTT    60
ATAGCTTAAG AATACAGTAT GGTATGATTA AATCAAGTTA TTAACCTATC CTTACGTTA    120
AATGCTTAAA TTTTGTATG AGAACATTTG AAATTTACTC TTGGAAGGTA AAAAAAATC    180
TCAGGACCCC CCAAATTAAA GCCATGAAGC TGAATTGTGC AACAATCCTC GAG          233
```

(2) INFORMATION FOR SEQ ID NO:1481:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 266 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:

GAATTCGGCC TTCATGGCCT AGATAACTAT TGCTCCCACT ACCCTTTCAG CTATCTCACA	60
TAACCTTTGAT ATATATTATT TTTATTATCG TTTATTAAAGT GTCTAATTTC CATTGTGAAG	120
TCTCCTTGGA CCTATAAGGC TGAAATAAAA TAATTTAAAA TTTATTTTCT TATTGTTTCT	180
AATTTCAATT CATATAGTT AATGCAAGTG GTCATTGTGC TATTGAGTTT GGTACTTTGG	240
AGGTTTCTTT TTCTGGCTAT CTCGAG	266

(2) INFORMATION FOR SEQ ID NO:1482:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482:

GAATTCGGCC TTCATGGCCT AAGAAATGTT CACTTTTCCA ACTTAAAAGG ATTTTAAAAA	60
ATACAAACAT AATTGACCTA CCTGGTTCAA AGAACAGAAG TGAGGAGAAC TTGCTTAAAG	120
GTATTGATGT TATATTTTCT CTGACTGAG TGCTTGAAAA AAAATTTTAT TGAACATATG	180
TTCTCCTTCC GTGGCTTTT TGTCTTTGCT TTTTGTGTTT GTTTTGTGTT TTTTCTTT	240
GAGATGGAGT CTCACTCTCT GTCGAG	267

(2) INFORMATION FOR SEQ ID NO:1483:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:

GAATTCGGCC TTCATGGCCT AAATTAGCAT CTAGTGTCAC AGGTAAAAGA ATTCAGGAC	60
CAGGTTTAAA CTTTATTTTA AATATTTTAA TACTTAGGTC TCTTTTCTCT GCCTCTCCCC	120
AAAGAAGAGC CACTGGCCTT AGTTGTTTGA GCTTACTGCT TATATTATAG AGTGTAATA	180
GGTAACTAGA GACTAAAATT TTATTAACCA GCATGTTTGG TATATTTAAA GCAGTTCTCG	240
AG	242

(2) INFORMATION FOR SEQ ID NO:1484:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:

GAATTCGGCC TTCATGGCCT ACAGAGTGTG GTTCTGTAG CAACACTTCT CATGACCATC	60
TGTTTTGTGT TTATGATGAT TTTTTCAGGT CTGTTGGTCA ATCTCACAAC CATTGCATCT	120
TGGCTGTCTAT GGCTTCAGTA CTTCAGCATT CCACGATATG GATTACGGC TTTGCAGCAT	180
AATGAATTTT TGGGACAAAA CTTCTGCCCA GGAATCAATG CAACAGGAAA CAATCCTGT	240
AACTATGCAA CATGTACTGG CGAAGAATAT TTGGTAAAGC AAGGCTCGA G	291

(2) INFORMATION FOR SEQ ID NO:1485:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

```

GAATTCGGCC TTCATGGCCT AGTAATTTTT GATAGTAAGG GCTTTTTATT GTCATTTTTT    60
GTTAATCGTT TCCTGTCTGT TTTGTATTTC TTTTGTTCCT CTCTTCCTCG CTTGGTATCA    120
TCTTTGCAAT TTGATAATTT TTGTTGTGAT ATACTTTGAT TCTTTCTATT TATCTCTTCT    180
GAATCTAATA TTAGTTTTTT TTATCTTTTC TGTATCTATT ATTAGTTTTT TTTCTTTGTG    240
GTTATCATGA GGCTTCCACT CGAG                                           264

```

(2) INFORMATION FOR SEQ ID NO:1486:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

```

GAATTCGGCC TTCATGGCCT ACCAGTGCCT TCCTCTTCCC TATATTCTGT GTGTCTTAAC    60
GGAATTATTT TTCCAAATCA TTGTGTGCAA AGAACTAAT GACATCATAA GTATGATTTC    120
TGTACACATT TTAGTTGTAA TTGCTAGGTT TTCCAAGATT TCACAGTCAT CAAGTCATCT    180
GTTCCCAGAC ATCCCAACAA GTACTTATCA AGTGTCTCCA TCTGCTGCCT TCATCTCTCT    240
CAGGTGCCAT TCCAGTGACA TTGCTATAGC CTCTTGCTGT ACCGCCCTCG AG           292

```

(2) INFORMATION FOR SEQ ID NO:1487:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

```

GAATTCGGCC TTCATGGCCT AATGGATATA GAATTCCAGG TTGATAAACA TTTTCTGTCA    60
CAACTTTACA ACTGAAGGCA TTGCCCTTTT GTCTTTTACC GTTCATTTGA TAAAAAGTCT    120
GGTGGAATC TAATTCTTAC ACCTTTGTAG GTGAGCATTT TTTCTTTCC TGTGACACAT    180
TTGTGATTAT CTGATCCTTA GAGATCTGAA GTTTTATCAT TTGTATCTAT GAGATCTTTT    240
CCCATCCTCC TGGTGCTCGA G                                           261

```

(2) INFORMATION FOR SEQ ID NO:1488:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 488 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

GAATTCGGCC TTCATGGCCT AATTTTCTGT ATATTTTAC ATGAATTTCA GTACTATATT	60
GAACAGCTAT GTTTAAGGAT AATCAAAAGA TGACTGTGAC AGGGAGAATT TGGAAATATT	120
AGCCCAAGTC TAGTCAATTG TGATTGTTGT TGC GTTGGTA CTAGTTTAAA TTGGGGCTAA	180
ATTTAGAGCC ACTGGGACTG AGTACCTCGG TTGATCTCCA ATGATTCCAA TTGCTAAAAA	240
GTAAAGGGCA ACCACACATA CGTACCAATT CTGAAGTCCT AGGAAATTTT TAAAAGAATC	300
TAAGAGAATA AGAAAATGTA AAAGGGAGAA GAGTTTATAT GTCATGACGT AAGTTT TAGA	360
GTTATTTACT TTGTAAGTGG ACCTTCTCTG CTTCTTCCAA TGTGTTTATT AAGACCTGTC	420
TGAAAAATGA CCTTCCAACCT CCCCTGAGTA ATTATTTAAG ACCCTTTCAT CTTACCAACC	480
CTCTCGAG	488

(2) INFORMATION FOR SEQ ID NO:1489:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 238 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

GAATTCGGCC TTCATGGCCT AGTCTCAAAA AAAAAATCAA AATAAAAGTA AAAGTAAGAA	60
GATGGAAATT TGCTTAGCTG TGAAAGGAAA GGCGATCTGT CTGATGTCCT GTGTTTGGTG	120
CCTAGGTGGG CTTGCTGCTT GCATTTCTCTG CGTTGCAGTG TCAGGATTTT TCAGGGATCA	180
GCCTTGGCAC TGGAGACCTT CACATTTTCC ATCTGGTTAC TATGGCACAC AACTCGAG	238

(2) INFORMATION FOR SEQ ID NO:1490:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 263 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

GAATTACTCT GGAAGATATG CTCTATGCTG CTTTCATCCAT AAAGAGTAAT TATTTGGTGT	60
TCATGGCGGA ACTGTTCTGG TGGTTTGAAG TGGTGAAGCC GTCTTTTGTA CAGCCTCGTG	120
TTGTTCTGTC ACAAGGAGCT GAACCTGTAA AAGATATGCC TTCAATTCCT GTCTTGAATG	180
CTGCCAAAAG AAATGTCTTA GATAGTAGTT CTGACTTCCC TTCAAGTGGG GAAGGAGCTA	240
CATTTACACA GTCTCATCTC GAG	263

(2) INFORMATION FOR SEQ ID NO:1491:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 257 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

```
GCGATTGAAT TCTAGACCTG CCTCGAGCTC ACACCTGGAT TATCTCAGTA GTTCCCAAC      60
TGGTTTCCTT GTTCCATTC TTGCCTCCTT CTGTCTACTC TCAATATAAC AGCTAGAACA      120
ATCCTTTTAC AATGGAATTC AGATCATGTT TACCCCTCTG TTCAAATTCT CCAGTGACTT      180
TCCAGTTTTT ACATGATCTG GCTCCTACTA CCTGTCTCAC TGTGTTTCCT ACTACTCTCC      240
TGCCCTTTCT CCTCGAG                                     257
```

(2) INFORMATION FOR SEQ ID NO:1492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

```
GAATTAAAGA GGGCGATATC ATCACACTCA CTAACCAAAT TGATGAGAAC TGGTATGAGG      60
GGATGCTGCA TGGCCATTCA GGCTTCTTCC CCATCAATTA TGTGGAAATT CTGGTTGCC      120
TGCCCCATTA GGATGTTATG CTGGCTGGCT CGCCTCCTCT TGACCCAGAT AGTTACGGTT      180
AACCACTGCT TTGGCAATGC TGCTTATAAC ACATCCCAAG TGCAGGCCGC AGTGGTCCAC      240
GTCATCCAGC CCCACCAAGT GACTTTGGTT GACTTGTGGG CTCCACAGG ACTCGAG       297
```

(2) INFORMATION FOR SEQ ID NO:1493:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

```
GAATTCGGCC TTCATGGCCT AAAAAGAAAG AAAAAGAAAA GAAAAACCT TGGAGAAGTA      60
AGGGATTCTG TAAAAAATTT CCCCAATTTT ACTAGAGAGA TTGACATATA AATTAGAAA      120
ATTCAGATAA CCTATGTAAG ATGCTATGTA AGACAACCAT TGCAGAGACA CAAAGTAATC      180
AGATTCTTGA AGTCAATGC AAAAGAAAAA AATATTAAAG GCACTCGAG       229
```

(2) INFORMATION FOR SEQ ID NO:1494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494:

```
GAATTCGGCC TTCATCTGAC AATTAAAAAC ACTACCTTAG TTTGTTTTTC TGTAATTGAA      60
```

```

TTTGACAGT TCTATTTTAC TTGAATTAGT CTTTTTATAT ATATATAGGC AGAAGTACTT      120
AAATAAATCT TCCCTTAAGT ATCAAAAGCA AAAGAATAAC ATTCATAGAA GTCTAACATG      180
TTCAAAGTGT TAAATATACT ACAATTGTTC ATTCACATTA TAAATGCAGC TAAATGACT      240
AACCTTTCAG ATCAACCCCT CGAG                                           264

```

(2) INFORMATION FOR SEQ ID NO:1495:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 190 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495:

```

GAATTCGGCC TTCATGGCCT ACCTTCCTTC CTCCTTCCT TCCTTCCTT CCTTCTTCC      60
TTCCTTCCTT TCCTTCCTT CTTTCCTTTC CTCTCTTCT CTCTTCTGT CATGGTCTGG      120
CTCTGTTACC CAGGCTGGAG TGCAGGGGTG CAATCTCAGC TCGTGCAAC TTCTTCCCCC      180
CCAACTCGAG                                           190

```

(2) INFORMATION FOR SEQ ID NO:1496:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 232 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496:

```

GGCCTTCATG GCCTACTAAG CTATTTGATT CTAAGTGAAT ATGTTATCTC TTATTAGAGG      60
ATATGTTAAT TTTCTGCAT TTTATTCATT TATTAACCTA ACATCTCTGA TTGCCTACCA      120
TGTGTCAGGC TCTGTACTAA GGATTGAGGA CCCAAAGATG AACAAAACAT GGGGCCTAAT      180
TCAAAGATTT CACAACTGG AGAGAAAGTC AGCCACATAC AAAAGCCTCG AG              232

```

(2) INFORMATION FOR SEQ ID NO:1497:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 152 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497:

```

GTAGAATTGT ACAGTGCTTA TGAGTTATGC ATGTGTTCTT GGTCTTTGTT CTAGGATTTT      60
TTTTTTTTTT TGATTGCTGC TCCAGTTGCC TTAATTACTT TGACATTGGA GTTGACCACA      120
TGATGGTGTT CCACACTTCC CCTAGGCTCG AG                                           152

```

(2) INFORMATION FOR SEQ ID NO:1498:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 254 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498:

GCGATTGAAT TCTAGACCTG CCTCGATCTC TTGTATTCAG TATTTTGTGG GGGAGGTACT	60
TTGAAACTGT GTAAATATAC CATTCTCAT TAAACTTTTC AATTTATTCC CTTATTTAGA	120
TGCGTATGAA CTCATGGCTT CTTGTTTTAT TTGATGGATC CAAATCTGTT AATATCCTTA	180
CTGATTGGA TGCTCAGACT GCCCCAGATT TGGCCAGTGG AAGCCCTTC AGGCTTGCTC	240
CCATGTCCCT CGAG	254

(2) INFORMATION FOR SEQ ID NO:1499:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 658 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

GAATTCGGCC TTTCATGGCC TAGAGACCGC GGTGGCTGC CATTTAAACG CGGCCATCGG	60
TCCGGCCATC ATCCCCTTCA CGGTACTAGA CTCCGGGATG GTGAGATCCT TCTCATCCTT	120
TGGGGGCCGA CCCCGCTTCC GGGGACTTTG CTCTTGGGCT CTTTTCAGAG GGGATTGGA	180
GCCTCTCTCT GAAGAGCCTG AAGACACCCT CTTCTTTCCT TCTCCCATGT TCTTCTCAC	240
CTTCCCTTCA GACAGGCTAA GTTTGCGCTT CTCATCACCT GAGTTTGGCC TACTTCTCTC	300
CTCACTGGAA TTACGTCGAT TCTTGTATC AGAAGAATG TGGGATGACG TCTGGTCTTT	360
CCCTTTGGCT CTCCTGTAGG CCATGAAGGC CCGGCCTTCA TGGCCTACCA TTTCTTACAC	420
ACACTGCCAG AGATACTCTA GGCATGTAAA GCACAAACAT ACATATAAAA TCTGCCGGCT	480
TCAAAAAATA TAAGTAGGAT GTCATCTATA CTGTCATACA CTTTGTTTTT TATCACTTAC	540
TTAATGTTAT ATCTTGGATA TTGTATTACC CTGGGTATTA AAAAGAACTC CTTTCACATT	600
TTAAAATAAC AATCTGAGCA CTTCATAAAT CCAAATGCGT ATCTCCAGTC TGCTCGAG	658

(2) INFORMATION FOR SEQ ID NO:1500:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 113 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

GAATTCTAGA CCTGTCTCGA GAAACCAGAG GACTTTTCTG CTTTGTGTTT TCTTTTAGGA	60
GGTAATAAAA CCGTGAATTT ATTTAAATGC TAATGTGTAG GATCTCACTC GAG	113

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145,

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or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID

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or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ

ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID

NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267, SEQ ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271, SEQ ID NO:272, SEQ ID NO:273, SEQ ID NO:274, SEQ ID NO:275, SEQ ID NO:276, SEQ ID NO:277, SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, SEQ ID NO:284, SEQ ID NO:285, SEQ ID NO:286, SEQ ID NO:287, SEQ ID NO:288, SEQ ID NO:289, SEQ ID NO:290, SEQ ID NO:291, SEQ ID NO:292, SEQ ID NO:293, SEQ ID NO:294, SEQ ID NO:295, SEQ ID NO:296, SEQ ID NO:297, SEQ ID NO:298, SEQ ID NO:299, SEQ ID NO:300, SEQ ID NO:301, SEQ ID NO:302, SEQ ID NO:303, SEQ ID NO:304, SEQ ID NO:305, SEQ ID NO:306, SEQ ID NO:307, SEQ ID NO:308, SEQ ID NO:309, SEQ ID NO:310, SEQ ID NO:311, SEQ ID NO:312, SEQ ID NO:313, SEQ ID NO:314, SEQ ID NO:315, SEQ ID NO:316, SEQ ID NO:317, SEQ ID NO:318, SEQ ID NO:319, SEQ ID NO:320, SEQ ID NO:321, SEQ ID NO:322, SEQ ID NO:323, SEQ ID NO:324, SEQ ID NO:325, SEQ ID NO:326, SEQ ID NO:327, SEQ ID NO:328, SEQ ID NO:329, SEQ ID

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NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500;
or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.
6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/12, 5/10, C07K 14/47, C12Q 1/68, A61K 38/17	A3	(11) International Publication Number: WO 98/45435 (43) International Publication Date: 15 October 1998 (15.10.98)
(21) International Application Number: PCT/US98/06954 (22) International Filing Date: 10 April 1998 (10.04.98) (30) Priority Data: 08/835,913 10 April 1997 (10.04.97) US (71) Applicant: GENETICS INSTITUTE, INC. [US/US]; 87 CambridgePark Drive, Cambridge, MA 02140 (US). (72) Inventors: JACOBS, Kenneth; 151 Beaumont Avenue, Newton, MA 02160 (US). MCCOY, John, M.; 56 Howard Street, Reading, MA 01867 (US). LAVALLIE, Edward, R.; 113 Ann Lee Road, Harvard, MA 01451 (US). RACIE, Lisa, A.; 124 School Street, Acton, MA 01720 (US). MERBERG, David; 2 Orchard Drive, Acton, MA 01720 (US). TREACY, Maurice; 93 Walcott Road, Chestnut Hill, MA 02167 (US). SPAULDING, Vikki; 11 Meadowbank Road, Billerica, MA 01821 (US). AGOSTINO, Michael, J.; 26 Wolcott Avenue, Andover, MA 01810 (US). (74) Agent: SPRUNGER, Suzanne, A.; Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 12 November 1998 (12.11.98)
(54) Title: SECRETED EXPRESSED SEQUENCE TAGS (sESTs) (57) Abstract Secreted expressed sequence tags (sESTs) isolated from a variety of human tissue sources are provided.		

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EE	Estonia						

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JS 98/06954

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12N15/12 C12N5/10 C07K14/47 C12Q1/68 A61K38/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N C07K C12Q A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97 07198 A (GENETICS INSTITUT) 27 February 1997 see the whole document ---	1-8
A	WO 97 04097 A (GENETICS INST) 6 February 1997 ---	1-8
A	ADAMS M D ET AL: "3,400 NEW EXPRESSED SEQUENCE TAGS IDENTIFY DIVERSITY OF TRANSCRIPTS IN HUMAN BRAIN" NATURE GENETICS, vol. 4, no. 3, July 1993, pages 256-267, XP000611495 see the whole document ---	1-8
-/--		



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

3 July 1998

Date of mailing of the international search report

30.09.98

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 536 637 A (JACOBS KENNETH) 16 July 1996 cited in the application see the whole document ---	1-8
A	JACOBS K ET AL: "A NOVEL METHOD FOR ISOLATING EUKARYOTIC CDNA CLONES ENCODING SECRETED PROTEINS" JOURNAL OF CELLULAR BIOCHEMISTRY - SUPPLEMENT, vol. 21A, 10 March 1995, page 19 XP002027246 see abstract ---	1-8
A	WO 90 14432 A (GENETICS INST) 29 November 1990 see the whole document ---	1-8
A	WO 96 17925 A (IMMUNEX CORP) 13 June 1996 see the whole document -----	1-8

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 98/ 06954

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see further information sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see further information sheet, subject 1.

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1. Claims: (1-8) partially

An isolated polynucleotide comprising a nucleotide sequence selected from SEQ ID no.1, consisting of a nucleotide sequence selected from SEQ ID no.1, consisting essentially of a nucleotide sequence selected from SEQ ID no.1; an isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence consisting of SEQ ID no.1; an isolated protein encoded by said isolated polynucleotides;

Inventions 2 to 1500. Claims: (1-8) partially

Idem as subject 1 but limited to SEQ ID nos.2 to 1500 respectively clone ID nos. B11 to BV29. (Invention 2 is limited to SEQ ID. no. 2; Invention 3 is limited to SEQ ID no. 3;.....Invention 1500 is limited to SEQ ID no. 1500);

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT, S 98/06954

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9707198 A	27-02-97	US 5707829 A	13-01-98
		AU 6712396 A	18-02-97
		AU 6768596 A	12-03-97
		EP 0839196 A	06-05-98
		EP 0851875 A	08-07-98
		WO 9704097 A	06-02-97

WO 9704097 A	06-02-97	US 5707829 A	13-01-98
		AU 6712396 A	18-02-97
		EP 0839196 A	06-05-98
		AU 6768596 A	12-03-97
		EP 0851875 A	08-07-98
		WO 9707198 A	27-02-97

US 5536637 A	16-07-96	US 5712116 A	27-01-98

WO 9014432 A	29-11-90	US 5580753 A	03-12-96
		AT 147436 T	15-01-97
		AU 637620 B	03-06-93
		AU 5928990 A	18-12-90
		CA 2056997 A	24-11-90
		DE 69029657 D	20-02-97
		DK 473724 T	14-04-97
		EP 0473724 A	11-03-92
		ES 2099096 T	16-05-97
		JP 4506006 T	22-10-92
		US 5734037 A	31-03-98
		US 5414071 A	09-05-95

WO 9617925 A	13-06-96	AU 4639396 A	26-06-96
		CA 2206488 A	13-06-96
		FI 972390 A	05-06-97
		NO 972455 A	06-08-97
